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THE NIMBUS 4 DATA CATALOG

VOLUME 2

23 MAY THROUGH 30 JUNE 1970
DATA ORBITS 601—1123

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GODDARD SPACE FLIGHT CENTER

GREENBELT, MARYLAND

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THE NIMBUS 4 DATA CATALOG

Volume 2

23 May through 30 June 1970
Data Orbits 601-1123

Prepared by

Allied Research Associates, Inc.
Concord, Massachusetts

For the

Nimbus Project

October 1970

GODDARD SPACE FLIGHT CENTER
Greenbelt, Maryland

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FOREWORD

This is the second volume of a series of catalogs published by the National Aeronautics and Space Administration to document data acquired from the Nimbus 4 Meteorological Satellite. This volume covers the period from 23 May through 30 June 1970 with subsequent catalogs containing documentation for succeeding periods throughout the useful lifetime of Nimbus 4.

Background information concerning the Nimbus 4 Meteorological Satellite system and a description of the experiments and data formats have been published separately in the Nimbus IV User's Guide, with post-launch User's Guide information changes and corrections included in the data catalogs. The Nimbus 4 catalogs present the type of data available, anomalies in the data, if any, and geographic location and time of the data.

The assembly and editing of this catalog was accomplished by the Geophysics and Aerospace Division of Allied Research Associates, Inc. (ARA), Concord, Massachusetts under contract number NAS 5-10343 with the Goddard Space Flight Center, NASA, Greenbelt, Maryland.

Harry Press
Nimbus Project Manager
Goddard Space Flight Center

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SECTION 1

SUMMARY OF OPERATIONS

1.1 Introduction

Nimbus 4 was successfully launched from the Western Test Range at Vandenberg AFB, California, into a near circular orbit (587 X 593 n. mi.) at 08hr 17m 57sec Universal Time on 8 April 1970.

This second volume of the Nimbus 4 data catalog reflects complete data documentation for the period 23 May 1970 through 30 June 1970, orbits 601 to 1123.

The sensory data output and total operating time from launch (8 April 1970) through orbit 1123 on 30 June 1970 were as follows:

IDCS	14042 frames (pictures)
THIR (11.5 μm)	1827 hours
THIR (6.7 μm)	1040 hours
SIRS	1824 hours
FWS	1316 hours (total to failure, orbit 815)
SCR	1824 hours
MUSE	1834 hours
IRIS	1825 hours
BUV	1767 hours
IRLS	2611 frames (data)

The Filter Wedge Spectrometer (FWS) experiment failed during orbit 815, 8 June 1970 and no further data has been received from the experiment.

Gridding of the Nimbus 4 pictorial data (IDCS and THIR) is generally accurate to within ±1 degree of great circle arc (±60 n. miles) at the satellite subpoint. Mean satellite attitude errors have been less than 0.5 degree of nadir.

Data from the High Data Rate Storage Subsystem (HDRSS) B has been excellent. However, a flutter in the HDRSS A, at approximately 100 Hz, has affected both the analog and digital THIR and IDCS data. This flutter was first observed around orbit 450.

Quality of the sensory data varies from satisfactory to excellent. The following subsections 1.2 to 1.11 summarize the operational highlights of the individual experiments and call attention to known data anomalies in this catalog period.

The user is referred to the Nimbus IV User's Guide for a complete description of the Nimbus 4 experiments.

1.2 The Image Dissector Camera System (IDCS) Experiment

The Image Dissector Camera System performance has been satisfactory. Pictures from HDRSS B are of good quality (see Figure 1-1 of Volume 1). HDRSS A video playbacks, with 100 Hz flutter interferences, have a somewhat reduced image quality as shown in Figure 1-1a. The Sensor "On" Table in Section 2 shows the IDCS data orbits produced from HDRSS A playbacks.

The resolution of the IDCS (2 to 3 n. miles at the subsatellite point) and the system transfer function which tends to favor tonal rendition near the white end of the gray scale, are well suited for the IDCS intended purpose of cloud mapping.

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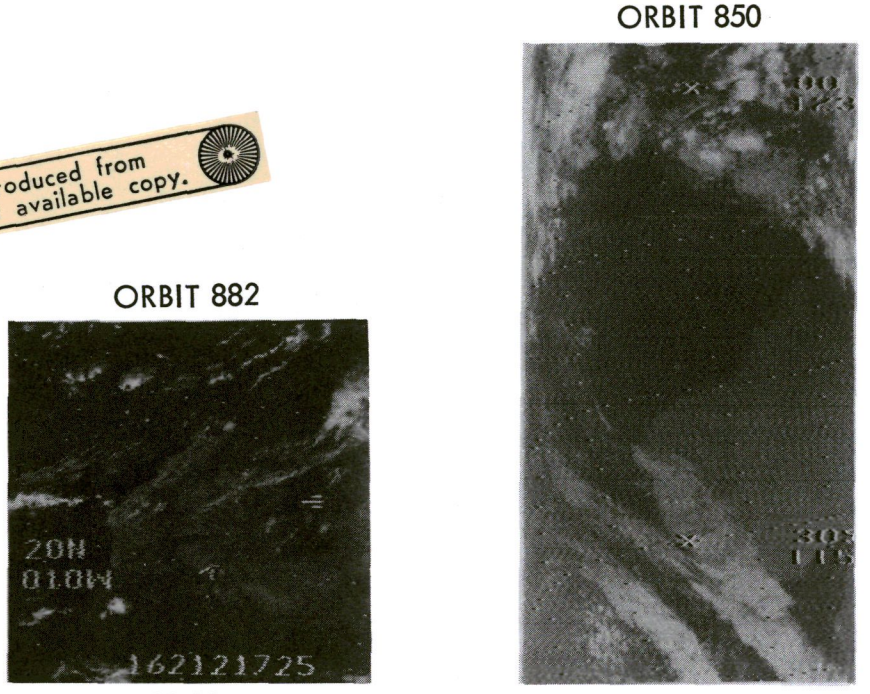


Figure 1-1 Sample IDCS and THIR Pictorial Data Containing Noise Attributed to Flutter in the HDRSS A Tape Recorder

1.3 The Temperature-Humidity Infrared Radiometer (THIR) Experiment

The quality of the THIR data recorded on HDRSS B from the water vapor channel (6.7 μm) and the window channel (11.5 μm) has been excellent.

The THIR data recorded on HDRSS A after orbit 450, 11 May 1970, contain periodic noise caused by flutter in the HDRSS A tape recorder. The Sensor "On" Table in Section 2 shows the THIR data orbits produced from HDRSS A playbacks. Figure 1-1b shows a noise degraded THIR 11.5 micrometer picture produced from a HDRSS A playback.

Because of the periodicity of the noise it is possible to filter the noise frequencies out of the digital data without degrading the data too drastically. This is done upon request of the user whenever radiation maps are produced by the National Space Science Data Center. There are two basic steps involved in filtering the data. First, a Fourier analysis of sample data from the back-scan housing is done to establish the "noise" frequencies present and their magnitudes. The filter program is designed to reduce these specific frequencies. Next, the digitized data are passed through the program and a filtered data tape is generated. Radiation maps are then produced from this filtered data tape.

Variations in film density can and do occur in the photographic product. The montage in Figure 1-2 illustrates the orbit to orbit density variations that can occur in one day of THIR data. These variations have been attenuated photographically in the montage presentation of Section 4 by controlling the exposure time as a function of film density (dodging). Figure 1-3 shows the same montage of Figure 1-2 made from dodged photographs. The dodging process brings out the details in the clouds and ice covered surfaces and makes the prints better suited for qualitative and first look analyses.

Because of film density variations no accurate quantitative analyses of the temperature or radiation can be made from the film or print.

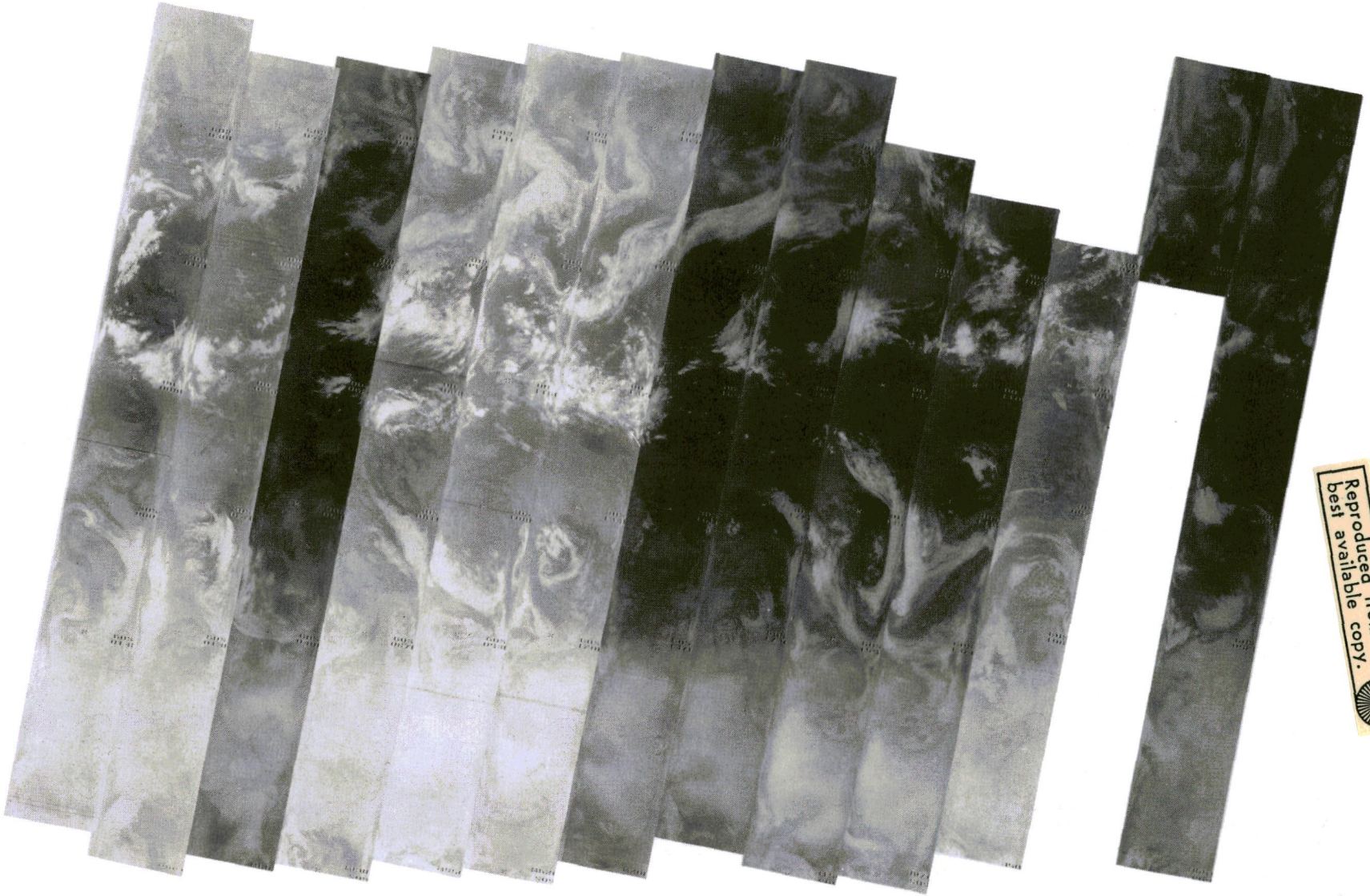
The film archived at the National Space Science Data Center (NSSDC) has been reproduced undodged (no exposure control). If dodged data are desired they must be specifically requested.

The bolometer, housing and electronic temperatures were maintained at about 19° C, 19° C and 23° C respectively throughout this catalog period.

Change to the Nimbus IV User's Guide:

The following is to be added to paragraph 3.4.1.5 of the Nimbus IV User's Guide:

5. Specify whether or not dodged photographic data are desired.



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Figure 1-2. Nimbus 4 THIR 11.5 μm Channel for 7 June 1970, Showing Photographic Processing Density Variations in One Day of Data

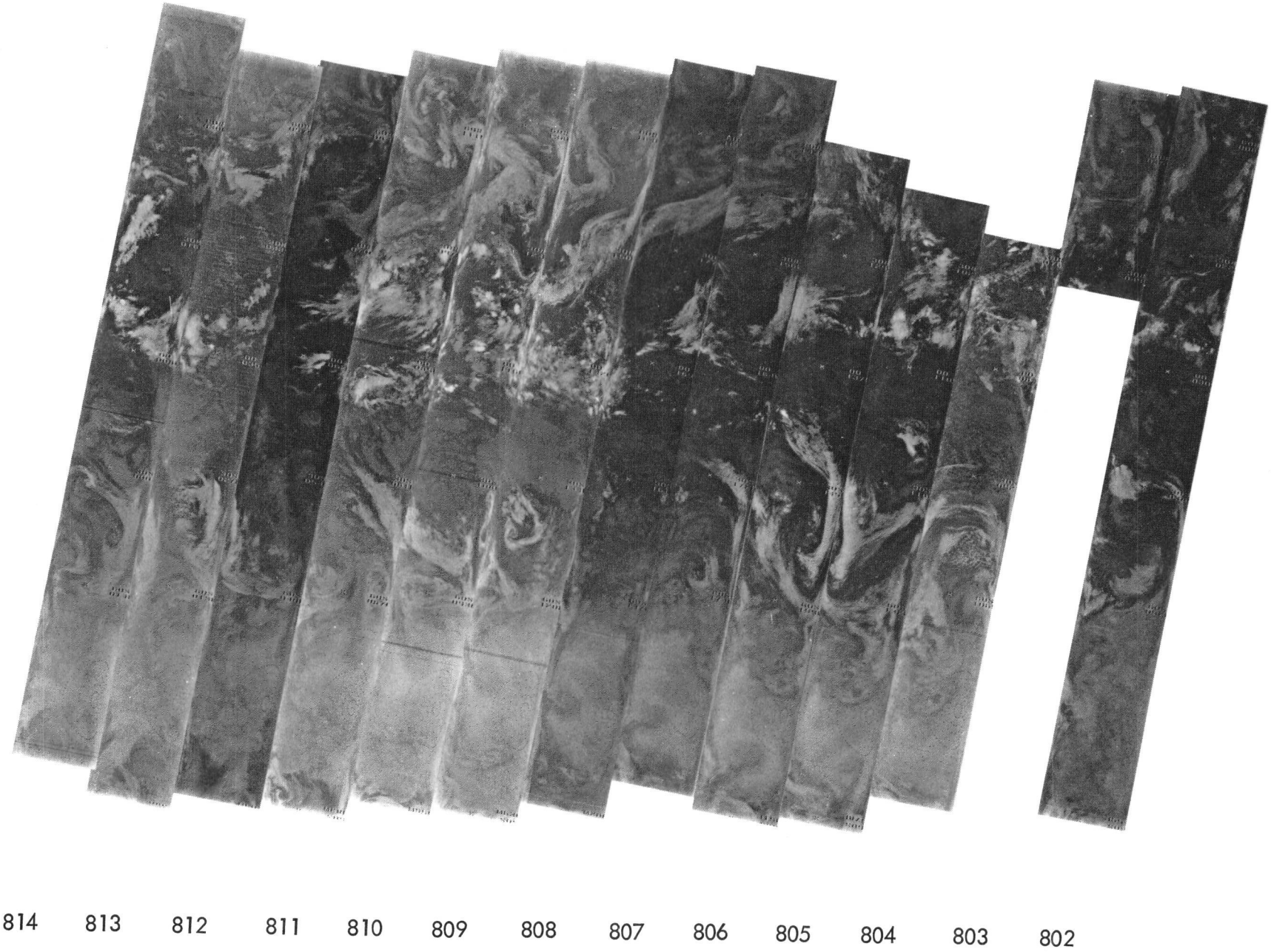


Figure 1-3. Nimbus 4 THIR 11.5 μm Channel Montage for 7 June 1970, Made from Exposure Controlled Photographs

1.4 The Infrared Interferometer Spectrometer (IRIS) Experiment*

The IRIS experiment has operated satisfactorily during this catalog period, with a slight decrease in the neon reference amplitude.

The fringe control interferometer generates a sine wave of 937.5 Hz at the silicon diode detector from the 0.5852 μ spectral line of a neon discharge lamp. The 937.5 Hz signal is (1) compared in phase to a spacecraft clock frequency to provide error signals for the phase locked loop, and (2) used to control the sampling rate of infrared energy incident on the bolometer. From a high of 2.8 volts at launch, the neon peak amplitude has decreased in intervals (averaging 4 millivolts per day) to its present value of 2.3 volts (Figure 1-4). This decrease in neon peak amplitude is believed to be radiation damage of the silicon diode detector. Because of the built-in safety margin of the neon voltage, this degradation will not adversely affect the collection of data.

Image motion compensation (IMCC) angular scan has become (1) smaller and (2) non-linear (Figure 1-5). Ball bearings in the IMCC torque motor are suspected of becoming magnetized. So far no evidence of smearing has been detected in the data. For the altitude the spacecraft flies, image motion compensation can be inhibited without degradation to the data.

Three minor correction coefficients are being evaluated for the following items:

1. The on-board black body spectral radiance (B_3) will be corrected for non-ideal surface emissivity.
2. The responsivity as computed from the hot and cold calibration spectra are in good agreement over most of the spectral range except towards the high wave number end. An empirical coefficient will be used to correct the effect.
3. A small latitudinal dependent correction coefficient will be applied to the warm and cold calibrated spectra to correct for their difference in variation over orbit.

These three coefficients will be published in a future issue of the data catalog.

Responsivity and noise equivalent radiance remain unchanged from the last catalog period.

1.5 The Satellite Infrared Spectrometer (SIRS) Experiment**

The performance of the SIRS-B instrument was nearly unchanged from the period covered by the preceding catalog. Channel 6 continued to function

*Contributed by R. Hanel, B. Schlachman and M. Sing of NASA/GSFC.
**Contributed by J. Lienesch of NESS/NOAA

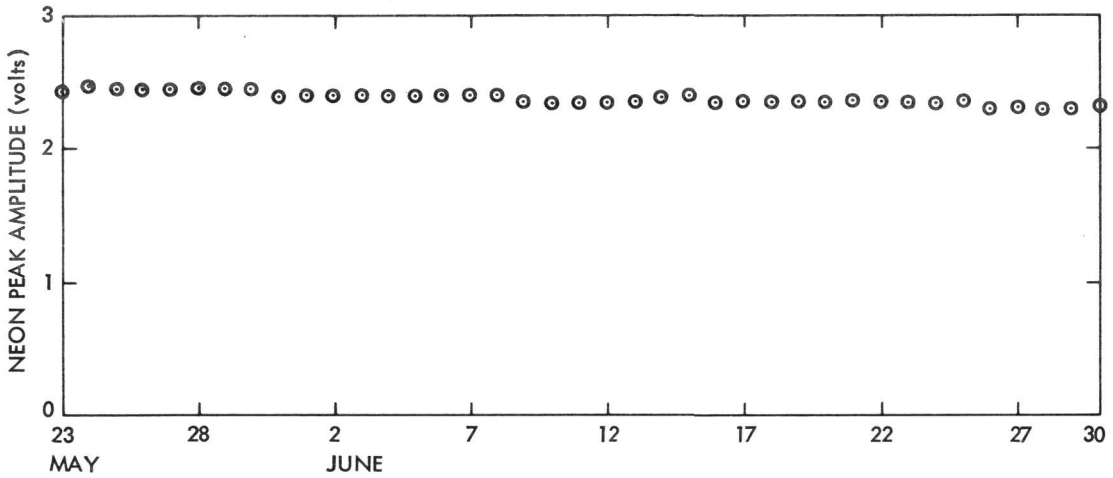


Figure 1-4. IRIS Neon Peak Amplitude

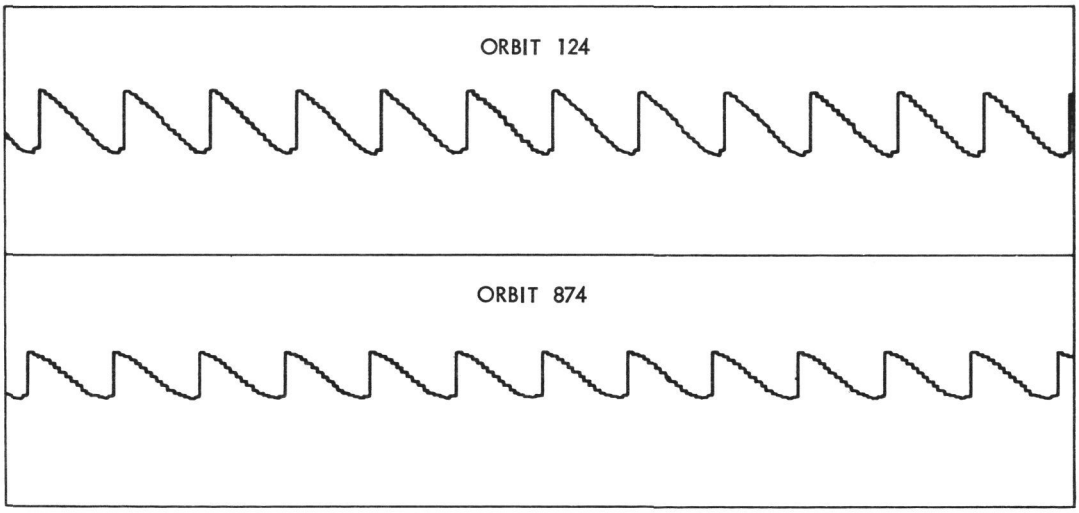


Figure 1-5. IRIS IMCC Scan Voltage

improperly as reported previously. Channels 9 and 12 were somewhat erratic and became quite unreliable near orbits 1050 and 900, respectively. Near orbit 900 channel 12 also exhibited a zero level shift. Channel 14 was more stable than reported for the earlier catalog although after orbit 1000 it again became more erratic. These 3 channels (9, 12, and 14) should be used only after precautions have been taken to identify incorrect data.

The preceding catalog contains a reference to the application of limits of 8 and 200 ergs $(cm^2 \text{ sec sr } cm^{-1})^{-1}$ to all SIRS channels. The limits are actually 40 and 1020 binary counts (1023 is full scale), and are applied to the digital output of each measurement of the individual channels.

The format description of SPEC 2 given in Table 1-1 of the Nimbus 4 Data Catalog, Volume 1, page 1-14 should be changed to read:

SPEC 2 Two 12 bit words packed in each 24 bit word. Word 9 contains channel 1 in bits $2^{23}-2^{12}$, channel 2 in bits $2^{11}-2^{0}$. Word 10 contains channel 3 in bits $2^{23}-2^{12}$, etc. The decimal point is assumed to be between the first and second decimal digit - i.e., multiply each decimal integer by 10^{-1}.

1.6 The Monitor of Ultraviolet Solar Energy (MUSE) Experiment

The MUSE experiment has performed satisfactorily in both manual and automatic modes during this catalog period. The functional telemetry monitors have indicated a steady and stable electrometer operation. There has been no indication of electrometer drift. The subsystem electronics and feedback resistor temperatures were maintained at nominal levels of $24^{\circ}C$ and $30^{\circ}C$ respectively, throughout this period. The solar aspect monitor (ATA) has indicated continuous degradation in the cell output. This is attributed to decreased sensitivity of the ATA cell due to radiation damage which causes a decrease in the maximum current flow in the cell at the day terminator.

The ultraviolet sensors outputs continued to follow the same trends that had been shown during the first catalog period. As shown in Table 1-1 Sensors 1, 2, and 3 (2600Å, 1216Å and 1800Å, respectively) decreased and Sensor 4 (2100Å) increased during this period. The only sensor that did not show any significant change since launch is the 2800Å sensor. Figure 1-6 shows the trends of the individual sensors for this period. The rates of increase and decrease have lessened considerably from the previous catalog period. The gradual increase in output of the 2100Å sensor appears to be due to a change in bandwidth of the interference filter. A discussion of the long term sensor characteristics will be presented in a later volume.

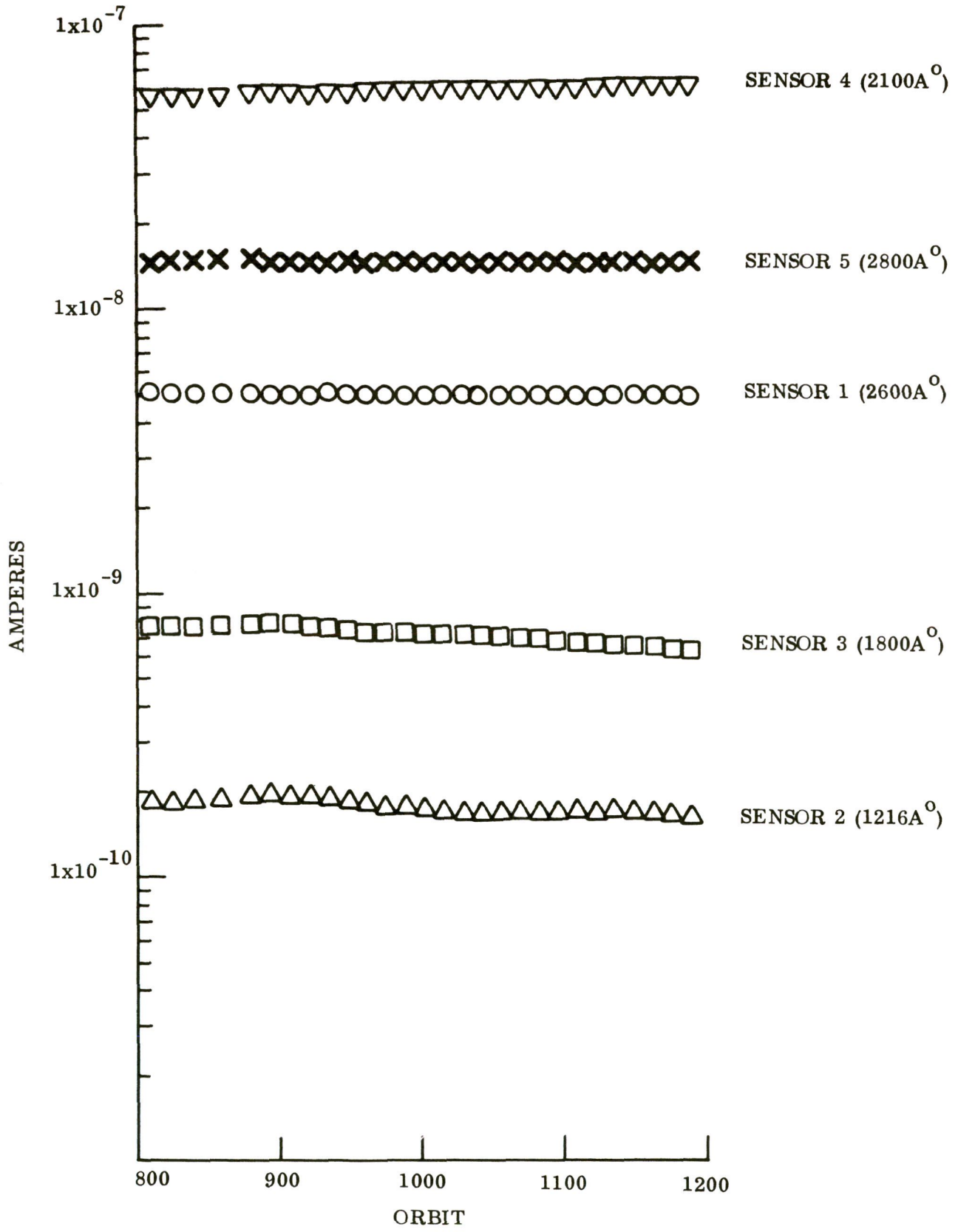


Figure 1-6. MUSE Sensor Outputs at Day Terminator

Table 1-1

MUSE SENSORS OUTPUTS AT DAY TERMINATOR

Function	Orbit				
	800	908	1001	1096	1189
Pitch Aspect Angle (Degrees)*	0.36	0.36	1.09	1.09	1.09
Yaw Aspect Angle (Degrees)*	6.15	6.15	6.88	6.88	7.59
ATA (TMV)	0.71	0.84	0.89	0.94	1.04
Sensor 1 (2600Å) (TMV)	1.04(5)**	0.96(5)	0.89(5)	0.87(5)	0.79(5)
Sensor 2 (1216Å) (TMV)	2.38(2)	2.46(2)	2.21(2)	2.18(2)	2.09(2)
Sensor 3 (1800Å) (TMV)	4.18(3)	3.88(3)	3.28(3)	2.83(3)	2.31(3)
Sensor 4 (2100Å) (TMV)	1.34(7)	1.56(7)	1.71(7)	1.89(7)	1.98(7)
Sensor 5 (2800Å) (TMV)	1.91(6)	1.89(6)	1.89(6)	1.89(6)	1.89(6)

* Angles are average values over the time period of 25 seconds during which all five sensors outputs are sampled.

** Numbers in parentheses identify the Electrometer Range for the corresponding sensor output.

1.7 The Backscatter Ultraviolet Spectrometer (BUV) Experiment

The BUV experiment continued to perform well during this period. It has been on continuously since activation on orbit 33, and data qualities have been good, with no anomalies observed.

There has been little change in subsystem temperature. Evaluation of the Master Calibration Sequence MCS-D indicates that the mercury strong line value has remained at 2535.3Å.

The MCS-A, B and C calibrations are still susceptible to free space radiation, particularly in the area of the South Atlantic Anomaly, as indicated in Volume 1 of the catalog.

The diffuser was deployed, without problems, every orbit to view the sun; however, it was not utilized to view the moon during this period. Moon deployment is planned during the next gibbous phase.

The photomultiplier tubes (PMT) have shown a change in gain with time. The degradation has been exponential with time and appears to be leveling off (See Figure 1-17 in Volume 1). Pre-launch calibration data have been

presented in Volume 1 (Table 1-3, p. 1-25). In order to evaluate the BUV data, one must multiply the prelaunch calibration data by the ratio of gain-at-launch/gain-at-time-T-after-launch. The PMT gains for the photometer channel and the monochromator channel have levelled off to an average of 1.23×10^6 and 1.70×10^6 respectively, for this catalog period.

1.8 The Filter Wedge Spectrometer (FWS) Experiment

The FWS chopper motor failed on Orbit 815, June 8, 1970 precluding further reception of data. Attempts to restart the motor were unsuccessful. Before orbit 815 satisfactory data were received from the short wavelength channel, but icing of the bolometer prevented obtaining any usable data from the long wavelength channel.

1.9 The Selective Chopper Radiometer (SCR) Experiment

The performance of the SCR has been satisfactory for this catalog period. Housekeeping telemetry were nominal with the exception of Channel 1 Calibration Mirror Temperature Monitor, which failed during orbit 905. No operational difficulty has resulted from this failure, since the Channel 1 mirror calibration temperature can be estimated from the Channel 2 mirror calibration temperature which is in the same housing and has been consistently 1°C to 1.5°C lower then the Channel 1 Temperature. Sensory data remained excellent for this catalog period.

Calibration data and format of the SCR tape will be published in a later volume of the catalog.

1.10 The Interrogation, Recording and Location System (IRLS) Experiment

The IRLS performance during this period was satisfactory. As of 30 June 1970 nine fixed platforms and seven balloon packages have been interrogated (Tables 1-2 and 1-3). Approximately 3000 frames of data have been collected and the rate of accumulation is increasing as more platforms and balloons are added to the system.

Nimbus 4 IRLS location accuracies calculated from a fixed platform (ISE) at Goddard Space Flight Center, Greenbelt, Maryland and a fixed U.S. Navy platform located at Bermuda (Figure 1-7) were comparable to the Nimbus 3 IRLS. Errors in location averaged between 2-3 n. miles and can generally be attributed to erroneous or old orbital elements.

A comparison of the Nimbus 3 and 4 IRLS maximum slant range for platform and balloon communications indicates that the Nimbus 4 IRLS can operate over greater distances. A slant range of 2860 kilometers has already been recorded for Nimbus 4.

Table 1-2

PLATFORMS INTERROGATED BY NIMBUS 4 IRLS

Platform Number and Agency	Platform Function	First Interrogated	Last Interrogation	Remarks
P 45 Smithsonian Institution	Sensor data from Elk package	10 April	26 April	Check feasibility and utility of an IRLS animal package
P 10 GSFC – NASA	Verify IRLS location system	10 April	operational	Located in Grand Teton Park, Montana
P 22 (Now P 93) ESSA (Now NOAA)	Verify system temp. meas.	10 April	–	Now in transit to Antarctica
P 32 (Now P 100) U. S. Naval Oceanographic Office	Oceanographic data	22 April	operational	Originally in Washington, D. C. now in Puerto Rico
P 01 (Now P 91) GSFC – NASA	Verify IRLS location system	22 April	–	Located at GSFC, Greenbelt, Maryland ISE platform
P 74 (Now P 99) Bureau of Commercial Fisheries	Free floating oceanographic platform	23 May	–	Platform presently being interrogated and tested at Boulder, Colorado
P 92 GSFC – NASA	IRLS location accuracy check	30 May	operational	Located at GSFC, Greenbelt, Maryland ISE platform
P 33 U. S. Naval Oceanographic Office	IRLS location accuracy check and oceanographic data	4 June	operational	Located at Bermuda
P 54 U. S. Geological Survey	Air temperature measurements	5 June	operational	Located on Mt. Rainier at 14, 000 feet

Table 1-3

BALLOON PACKAGES TRACKED BY NIMBUS 4 IRLS
(up to 1 July 1970)

Balloon Package Number	Floating at about:	Launched	First Interro-gated	Last Interro-gation	Remarks
P 02	50 mb (25km)	24 June 1970	24 June	operational	
P 03	30 mb (29km)	23 June 1970	24 June	operational	
P 07	30 mb (29km)	11 June 1970	11 June	operational	
P 11	50 mb (25km)	22 June 1970	22 June	operational	
P 20	30 mb (29km)	30 June 1970	30 June	operational	
P 23	50 mb (25km)	1 June 1970	1 June	29 June 1970	balloon downed on 29 June
P 97	50 mb (25km)	22 April 1970	2 June	23 June 1970	tracked by Nimbus 3 before 2 June – balloon lost solar power on 23 June

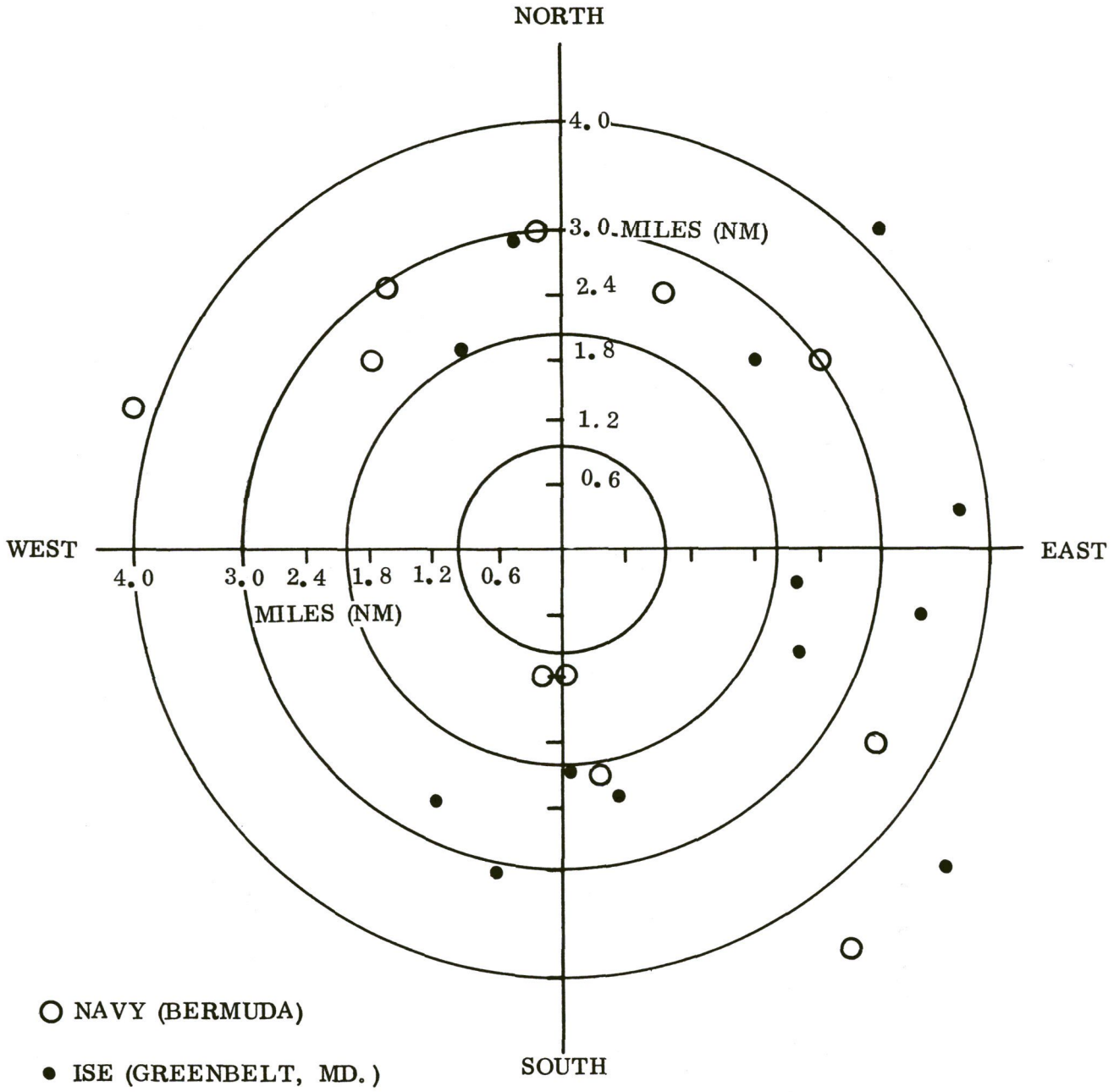


Figure 1-7. Nimbus 4 IRLS Plot of Error Distribution

The Nimbus 4 IRLS began tracking balloons on 25 May and since then has tracked 14 balloons. Locations for each balloon have been received on the average of once a day. Occasionally, the same balloon will be located on successive orbits, the interrogations being less than two hours apart. Figures 1-8 and 1-9 are balloon location tracks from the Nimbus 4 IRLS System. The meteorological data from these balloons are being relayed to the scientific community.

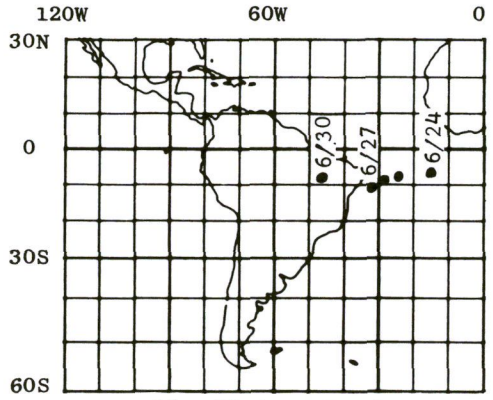
1.11 The Real Time Transmission Systems (RTTS) Experiment

The Nimbus 4 RTTS is not routinely transmitted because it interferes with the IRIS experiment. Except for initial activation during the early orbits, RTTS has been turned on for only one brief period, from orbit 353 through 356.

Distribution of the Nimbus IV Real Time Transmission System (DRID and DRIR) manual was made, prior to launch, to all known active APT ground stations. Gridding techniques and grid accuracies described in the manual were checked with actual data after launch. No gridding problems were encountered and grid accuracies were nominal to those listed in the manual.

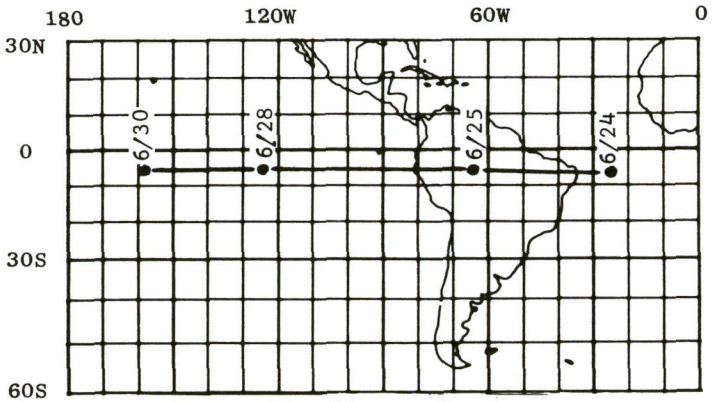
As of 1 May 1970, there were over 395 active RTTS ground stations which could receive the Nimbus transmissions. Over 195 of these were in operation in 65 foreign counties. (Another 267 known locations were in various stages of RTTS ground station construction.) About 287 stations had only APT (DRID) reception capability while the remainder (108) had both APT (DRID) and DRIR capability.

Track of Balloon Package No. P 02
Floating at about 50 mb (25 km)
Launched 24 June 1970 from Ascension Island



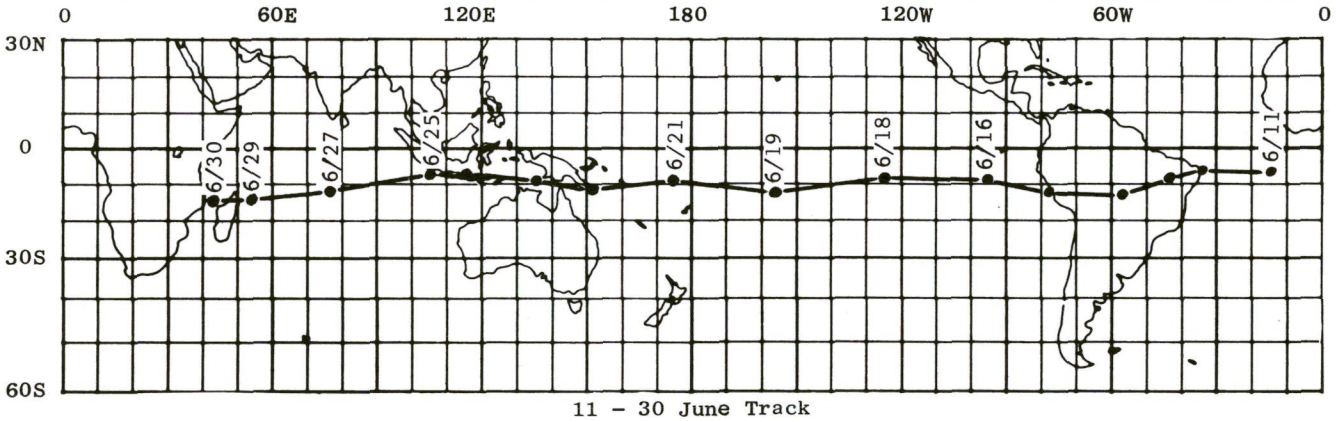
24 - 30 June Track

Track of Balloon Package No. P 03
Floating at about 30 mb (29 km)
Launched 23 June 1970 from Ascension Island



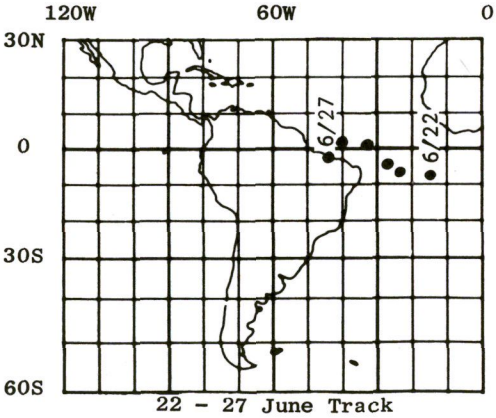
24 - 30 June Track

Track of Balloon Package No. P 07
Floating at about 30 mb (29 km)
Launched 11 June 1970 from Ascension Island



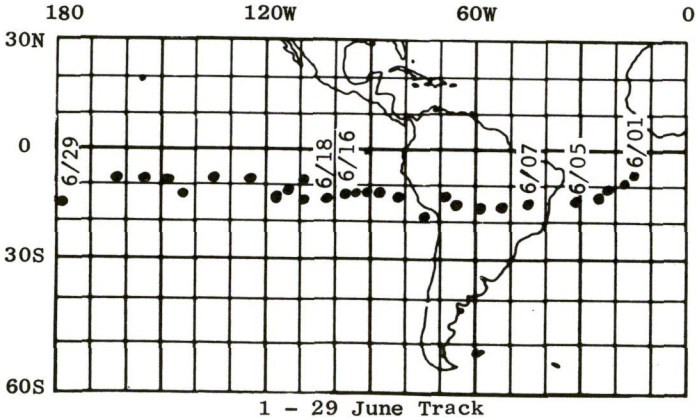
11 - 30 June Track

Track of Balloon Package No. P 11
Floating at about 50 mb (25 km)
Launched 22 June 1970 from Ascension Island



22 - 27 June Track

Track of Balloon Package No. P 23
Floating at about 50 mb (25 km)
Launched 1 June 1970 from Ascension Island



1 - 29 June Track

Figure 1-8. Nimbus 4 IRLS Balloon Location Tracks

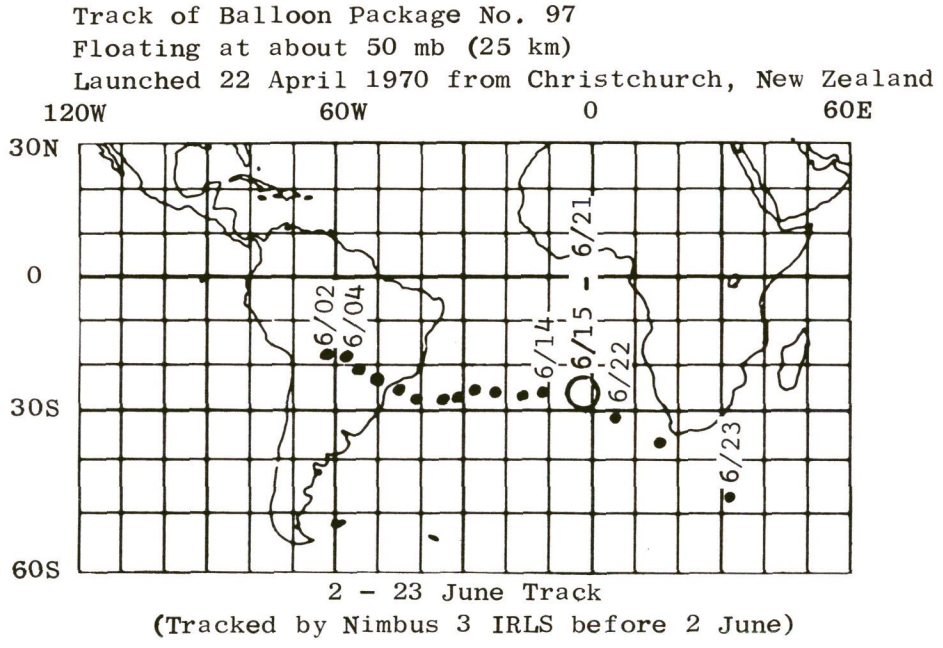


Figure 1-9. Nimbus 4 IRLS Balloon Location Track

SECTION 2

ORBITAL ELEMENTS AND DAILY SENSORS "ON" TABLES

The Nimbus 4 Brouwer Mean orbital elements for May and June 1970 are listed in Table 2-1.

The Daily Sensors "On" Table (Table 2-2) lists the times during which the IRIS, IDCS and THIR subsystems were turned on and off. The other subsystems (FWS, BUV, MUSE, SCR and SIRS) were on continuously during this catalog period and, therefore, are not individually listed.

Orbital sensor coverage in Table 2-2 is divided between daytime (D) and nighttime (N) data. The tabulation includes both the Universal Time (UT) and longitude of orbital equator crossings for the ascending nodes for daytime (D) data and descending nodes for nighttime (N) data. The tape recorder HDRSS (A or B) used to record the data is also listed. If both are used on the same orbit, the one with the longer record time is listed first.

Table 2-2 together with the World Map (Figure 2-1) and the vellum Subsatellite Tracks Overlay attached to the back of this catalog can be used to determine approximate geographic sensor coverages.

A Subsatellite Tracks Overlay is correctly oriented with the World Map when the ascending or descending node line on the overlay lays over the 0 degree latitude (equator) line of the World Map. Orbital sensor coverage is determined by placing an orbit track on the world map at the appropriate ascending node (for daytime) or descending node (for nighttime) longitude for the orbit(s) of interest.

The Subsatellite Tracks Overlay contains 14 correctly spaced tracks which end at the approximate earth day/night transitions. The tracks contain time ticks spaced 5 minutes apart, appropriately annotated at the edge of the overlay, referenced from the Equator. Minutes from equator crossings for all or part of a particular orbit are calculated by adding or subtracting from the ascending or descending node time listed for that orbit in the Daily Sensors "On" Table.

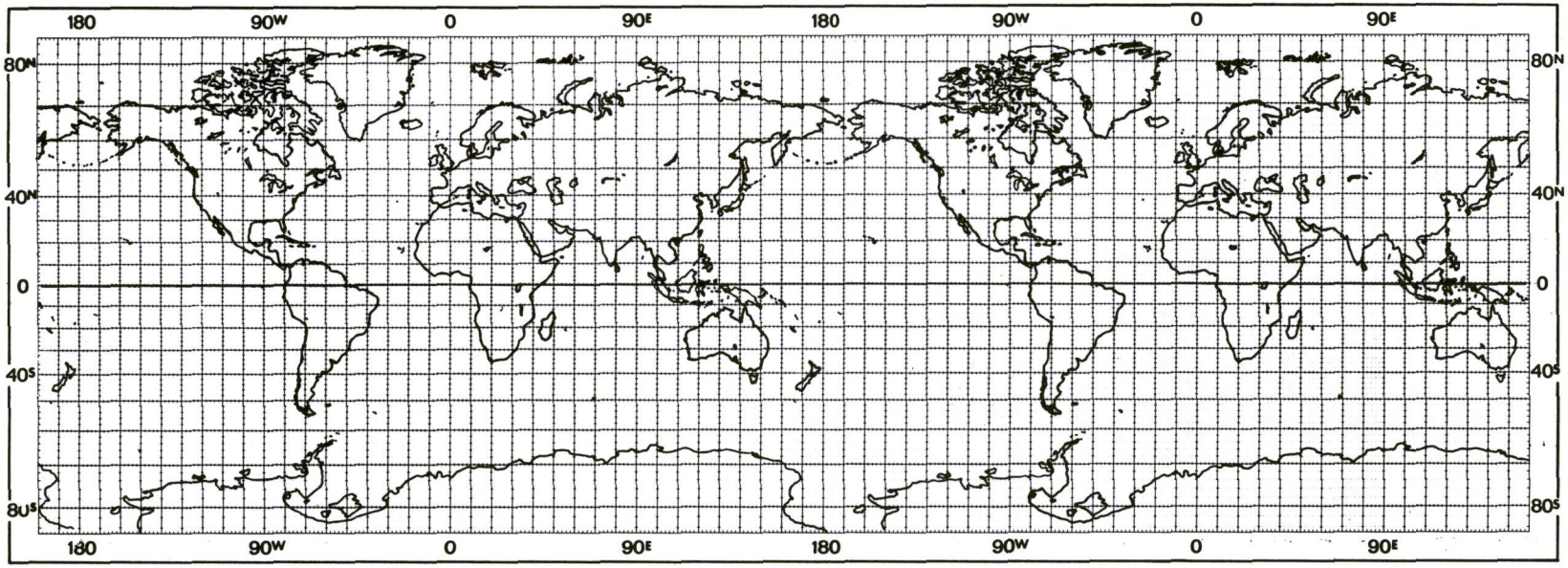


Figure 2-1. World Map

Table 2-1

NIMBUS 4 BROUWER MEAN ORBITAL ELEMENTS FOR MAY AND JUNE 1970

Epoch	Universal Time	27 May 1970 00 00 00	8 June 1970 00 00 00	22 June 1970 00 00 00
Validity Period	Universal Time	Fr 23 May 70 00 00 00 To 31 May 70 00 00 00	Fr 1 June 70 00 00 00 To 15 June 70 00 00 00	Fr 16 June 70 00 00 00 To 30 June 70 00 00 00
Semi-Major Axis	Km	7471.7107	7471.7070	7471.7030
Eccentricity		.0007256	.0007537	.0007972
Inclination	Degrees	99.8862	99.8856	99.8850
Argument of Perigee	Degrees	218.3952	188.6001	154.5101
Right Ascension of Ascending Node	Degrees	62.0406	73.8100	87.5445
Mean Anomaly	Degrees	51.46032	131.67701	164.64052
Height of Perigee	Km	1088.12	1087.91	1087.58
Height of Apogee	Km	1098.97	1099.12	1099.49
Anomalistic Period	Minutes	107.1242	107.1241	107.1240

TABLE 2-2
SENSOR ON – OFF TIMES
DATE 23 MAY 1970

DATA ORBIT	ASCEND/DESCEND NODE				HDRSS	IRIS		THIR HUMIDITY		THIR TEMP		IDCS	
	TIME			LONG		ON	OFF	ON	OFF	ON	OFF	ON	OFF
	HR	MIN	SEC	DEG		HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN
601 D	01	43	22	E 152.10	B	01 25	02 13			01 25	02 13	01 24	02 12
601 N	02	36	57	W041.29	B	02 13	02 27	02 13	02 27	02 13	02 27		
602 D	03	30	36	E 125.30									
602 N	04	24	11	W068.10	B	04 19	04 59	04 19	04 57	04 18	04 59		
603 D	05	17	50	E 098.48	B	04 59	05 48			04 59	05 48	04 58	05 47
603 N	06	11	25	W094.91	B	05 48	05 55	05 47	05 54	05 48	05 54		
603 N	06	11	25	W094.91	B	06 01	06 46	06 01	06 44	06 01	06 46		
604 D	07	05	04	E 071.68	B	06 46	07 35	07 02	07 35	06 46	07 35	06 45	06 59
604 N	07	58	39	W121.72	A/B	07 35	08 33	07 35	08 31	07 35	08 33		
605 D	08	52	18	E 044.86	A	08 33	09 23	08 49	09 22	08 33	09 22	08 33	08 45
605 N	09	45	53	W148.53	B	09 24	10 21	09 24	10 18	09 24	10 21		
606 D	10	39	33	E 018.06	B	10 21	11 09			10 21	11 09	10 19	11 08
606 N	11	33	08	W175.33	A	11 10	12 08	11 11	12 03	11 11	12 08		
607 D	12	26	47	W008.74	A	12 08	12 57			12 08	12 53	12 07	12 48
607 N	13	20	22	E 157.88	B	12 57	13 55	12 56	13 53	12 57	13 55		
608 D	14	14	01	W035.55	B/A	13 55	14 44			13 55	14 44	13 54	14 36
608 N	15	07	36	E 131.07	A	14 44	15 42	14 44	15 40	14 44	15 42		
609 D	16	01	15	W062.38	A	15 42	16 31	15 58	16 23	15 42	16 00	15 41	15 55
609 D	16	01	15	W062.38	A					16 07	16 22		
609 N	16	54	50	E 104.24	B	16 31	17 30	16 31	17 27	16 31	17 30		
610 D	17	48	29	W089.15	B/A	17 30	18 18	17 41	18 01	17 30	18 18	17 29	17 42
610 N	18	42	04	E 077.43	A	18 18	19 17			18 18	19 17		
611 D	19	35	43	W115.98	A	19 17	20 05	19 33	19 48	19 17	19 49	19 16	19 30
611 D	19	35	43	W115.98	B					19 59	20 05		
611 N	20	29	18	E 050.64	B	20 05	21 04	20 05	21 02	20 05	21 04		
612 D	21	22	57	W142.79	B/A	21 04	21 53	21 20	21 40	21 04	21 53	21 03	21 17
612 N	22	16	33	E 023.83	A	21 53	22 51			21 53	22 51		
613 D	23	10	12	W169.61	A/B	22 51	23 27			22 51	23 40	22 50	23 25
613 N	00	03	47	W002.99	B			23 40	00 36	23 40	00 39		

TABLE 2-2
SENSOR ON – OFF TIMES
DATE 24 MAY 1970

DATA ORBIT	ASCEND/DESCEND NODE				HDRSS	IRIS		THIR HUMIDITY		THIR TEMP		IDCS	
	TIME			LONG		ON	OFF	ON	OFF	ON	OFF	ON	OFF
	HR	MIN	SEC	DEG		HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN
614 D	00	57	26	E 163.81	B					00 39	01 27	00 38	01 22
614 N	01	51	01	W029.80	A	01 25	02 26			01 28	02 26		
615 D	02	44	40	E 136.79	A	02 26	03 14			02 26	03 14	02 25 02 49	02 41 03 13
615 N	03	38	15	W056.63	A	03 14	03 30			03 14	03 30		
616 D	04	31	54	E 109.98									
616 N	05	25	29	W083.40	B	05 21	06 00	05 22	05 58	05 23	06 00		
617 D	06	19	08	E 083.16	B	06 00	06 49			06 00	06 49	05 59	06 44
617 N	07	12	43	W110.23	A/B	06 49	07 48			06 49	07 48		
618 D	08	05	22	E 056.38	A	07 48	08 36	08 02	08 34	07 48	08 35	07 47	08 00
618 N	08	59	58	W137.04	B	08 36	09 35	08 39	09 32	08 40	09 35		
619 D	09	53	36	E 029.56	B	09 35	10 21			09 35	10 20	09 34	10 19
619 N	10	47	12	W163.86	A	10 24	11 22			10 25	11 22		
620 D	11	40	51	E 002.75	A	11 22	12 07			11 22	12 09	11 21	12 10
620 N	12	34	26	E 169.36	B	12 12	13 09	12 12	13 07	12 12	13 09		
621 D	13	28	05	W024.08	B	13 09	13 58			13 09	13 55	13 12	13 57
621 N	14	21	40	E 142.54	A	13 58	14 57	13 58	14 55	13 59	14 57		
622 D	15	15	19	W050.89	A	14 57	15 45	15 12	15 38	14 57	15 41	14 59	15 09
622 N	16	08	54	E 115.73	B	15 45	16 44	15 45	16 41	15 45	16 44		
623 D	17	02	33	W077.68	B/A	16 44	17 32	17 00	17 21	16 44	17 32	16 46	16 57
623 N	17	56	08	E 088.90	A	17 32	18 31	17 32	18 29	17 32	18 31		
624 D	18	49	17	W104.49	A/B	18 31	19 20	18 47	19 06	18 31	19 20	18 34	18 44
624 N	19	48	22	E 052.13	B	19 20	20 18	19 20	20 16	19 20	20 18		
625 D	20	37	02	W131.31	B/A	20 18	21 07	20 34	20 54	20 18	21 07	20 20	20 31
625 N	21	30	37	E 035.31	A	21 07	22 06	21 07	22 04	21 07	22 06		
626 D	22	24	16	W158.12	A	22 06	22 40			22 06	22 41	22 08	22 39
626 N	23	17	51	E 008.49	B	23 02	23 53	23 01	23 51	23 00	23 53		

TABLE 2-2
SENSOR ON – OFF TIMES
DATE 25 MAY 1970

DATA ORBIT	ASCEND/DESCEND NODE				HDRSS	IRIS		THIR HUMIDITY		THIR TEMP		IDCS	
	TIME			LONG		ON	OFF	ON	OFF	ON	OFF	ON	OFF
	HR	MIN	SEC	DEG		HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN
627 D	00	11	30	E 175.09	B	23 53	00 41			23 53	00 41	23 55	00 37
627 N	01	05	05	W018.33	A	00 41	01 40	00 41	01 38	00 41	01 40		
628 D	01	58	44	E 148.28	A	01 40	02 29			01 40	02 29	01 39	02 24
628 N	02	52	19	W045.14	A	02 29	02 44	02 28	02 43	02 29	02 43		
629 D	03	45	58	E 121.45									
629 N	04	39	33	W071.93	A	04 32	05 14	04 32	05 13	04 32	05 14		
630 D	05	33	12	E 094.64	A	05 14	06 03			05 14	06 03	05 17	05 58
630 N	06	25	47	W098.74	B/A	06 03	06 14	06 03	07 00	06 03	07 02		
631 D	07	20	27	E 067.52	B			07 17	07 53	07 02	07 50	07 01	07 15
631 N	08	14	02	W125.56	A	07 54	08 49	07 54	08 46	07 54	08 49		
632 D	09	07	41	E 041.04	A	08 49	09 38			08 49	09 38	08 51	09 36
632 N	10	01	14	W152.38	B	09 38	10 36	09 43	10 34	09 42	10 36		
633 D	10	54	55	E 014.22	B	10 36	11 25			10 36	11 25	10 35	11 20
633 N	11	48	30	W179.16	A	11 25	12 23	11 28	12 22	11 28	12 23		
634 D	12	42	09	W012.59	A	12 23	13 12			12 23	13 11	12 26	13 11
634 N	13	35	44	E 154.03	B	13 12	14 11	13 12	14 09	13 12	14 11		
635 D	14	29	23	W039.42	B	14 11	14 59			14 11	14 55	14 10	14 55
635 N	15	22	58	E 127.20	A	14 59	15 58	14 59	15 56	14 59	15 58		
636 D	16	16	37	W066.19	A	15 58	16 46			15 58	16 38	15 57	16 35
636 N	17	10	12	E 100.39	B	16 46	17 45	16 46	17 43	16 46	17 45		
637 D	18	03	52	W093.01	B	17 45	18 34			17 45	18 28	17 44	18 26
637 N	18	57	26	E 073.57	A	18 34	19 32	18 34	19 30	18 34	19 32		
638 D	19	51	06	W119.82	A	19 32	20 05			19 32	20 04	19 34	20 02
638 D	19	51	06	W119.82	B	20 10	20 21			20 11	20 21		
638 N	20	44	41	E 046.79	B	20 21	21 20	20 21	21 18	20 21	21 20		
639 D	21	38	20	W146.65	B/A	21 20	22 08			21 20	22 08	21 22	21 57
639 N	22	31	55	E 019.97	A	22 08	23 07	22 08	23 05	22 08	23 07		
640 D	23	25	34	W173.46	A	23 07	23 42			23 07	23 55	23 09	23 44
640 N	00	19	09	W006.84	A			23 55	00 52	23 55	00 54		

TABLE 2-2
SENSOR ON – OFF TIMES
DATE 26 MAY 1970

DATA ORBIT	ASCEND/DESCEND NODE				HDRSS	IRIS		THIR HUMIDITY		THIR TEMP		IDCS	
	TIME			LONG		ON	OFF	ON	OFF	ON	OFF	ON	OFF
	HR	MIN	SEC	DEG		HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN
641 D	01	12	48	E 159.75	A	01 31	01 43			00 54	01 43	00 56	01 42
641 N	02	06	23	W033.67	B	01 43	02 41	01 43	02 40	01 43	02 41		
642 D	03	00	02	E 132.94	B	02 41	03 30			02 41	03 30	02 43	03 25
642 N	03	53	37	W060.44	B	03 30	03 39	03 30	03 44	03 30	03 44		
643 D	04	47	16	E 106.12									
643 N	05	40	51	W087.27	B			05 34	06 14	05 33	06 16		
644 D	06	34	31	E 079.31	B	06 41	07 04			06 16	07 04	06 18	06 56
644 N	07	28	06	W114.08	B	07 04	07 10	07 20	08 03	07 04	07 10		
644 N	07	28	06	W114.08	B					07 20	08 03		
645 D	08	21	45	E 052.52	B	08 31	08 51			08 03	08 50	08 05	08 50
645 N	09	15	20	W140.90	A			08 57	09 48	08 57	09 50		
646 D	10	08	59	E 025.71	A	10 05	10 37			09 50	10 37	09 52	10 34
646 N	11	02	34	W167.71	A	10 59	11 38	10 39	11 36	10 39	11 38		
647 D	11	56	13	W001.12	A	11 38	12 26			11 38	12 24	11 40	12 18
647 N	12	49	48	E 165.50	B	12 26	13 25	12 26	13 23	12 26	13 25		
648 D	13	43	27	W027.93	B	13 25	14 13			13 25	14 07	13 27	14 05
648 N	14	37	02	E 138.69	A	14 13	15 12	14 13	15 10	14 1[illegible]	15 12		
649 D	15	30	41	W054.75	A/B	15 12	16 01			15 12	16 01	15 11	15 49
649 N	16	24	16	E 111.86	B	16 01	16 59	16 00	16 58	16 01	16 59		
650 D	17	17	56	W081.53	B	16 59	17 34			16 59	17 35	16 58	17 33
650 D	17	17	56	W081.53	A	17 40	17 48			17 40	17 48		
650 N	18	11	30	E 035.05	B	17 48	18 47	17 48	18 44	17 48	18 47		
651 D	19	05	10	W108.35	A/B	18 47	19 35			18 47	19 35	18 46	19 13
651 N	19	58	45	E 058.26	B	19 35	20 34	19 35	20 32	19 35	20 34		
652 D	20	52	24	W135.16	B/A	20 34	21 04			20 34	21 22	20 33	21 04
652 N	21	45	59	E 031.45	A	22 00	22 21	21 22	22 19	21 22	22 21		
653 D	22	39	38	W161.99	A	22 21	22 54			22 21	22 54	22 20	22 51
653 N	23	33	13	E 004.63	B	23 07	00 08	23 09	00 06				

TABLE 2-2
SENSOR ON – OFF TIMES
DATE 27 MAY 1970

DATA ORBIT	ASCEND/DESCEND NODE				HDRSS	IRIS		THIR HUMIDITY		THIR TEMP		IDCS	
	TIME			LONG		ON	OFF	ON	OFF	ON	OFF	ON	OFF
	HR	MIN	SEC	DEG		HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN
654 D	00	26	52	E 171.24	A	00 08	00 57					00 11	00 56
654 N	01	20	27	W022.18	A	00 57	01 55	00 56	01 53	00 57	01 55		
655 D	02	14	06	E 144.42	A	01 55	02 44			01 55	02 44	01 55	02 33
655 N	03	07	41	W048.97	A	02 44	02 55	02 43	02 55	02 44	02 56		
656 D	04	01	21	E 117.60									
656 N	04	54	55	W075.78	A	04 49	05 30	04 50	05 28	04 50	05 30		
657 D	05	48	35	E 090.78	A	05 30	06 19			05 30	06 19	05 29	06 18
657 N	06	42	10	W102.60	A	06 19 06 35	06 25 07 17	06 35	07 15	06 35	07 17		
658 D	07	35	49	E 063.97	A	07 17	08 06			07 17	08 06	07 16	08 05
658 N	08	29	24	W129.42	A	08 14	09 04	08 15	09 03	08 15	09 04		
659 D	09	23	03	E 037.18	A	09 04	09 53	09 20	09 52	09 04	09 53	09 04	09 17
659 N	10	16	38	W156.24	B	09 53	10 52	09 53	10 48	09 53	10 52		
660 D	11	10	17	E 010.37	B	10 52	11 38			10 52	11 39	10 53	11 33
660 N	12	03	52	E 176.98	B	11 46	12 39	11 46	12 33	11 46	12 39		
661 D	12	57	31	W016.44	B	12 39	13 23			12 39	13 22	12 41	13 23
661 N	13	51	06	E 150.16	B	13 31	14 26	13 31	14 24	13 31	14 26		
662 D	14	44	46	W043.26	B	14 26	15 15			14 26	15 09	14 25	15 07
662 N	15	38	20	E 123.35	A	15 15	16 13	15 14	16 11	15 15	16 13		
663 D	16	32	00	W070.04	A/B	16 13	17 02			16 13	17 02	16 15	16 50
663 N	17	25	34	E 096.54	B	17 02	18 01	17 02	17 58	17 02	18 01		
664 D	18	19	14	W096.86	B/A	18 01	18 49			18 01	18 49	18 03	18 34
664 N	19	12	49	E 069.75	A	18 49	19 48	18 49	19 46	18 49	19 48		
665 D	20	06	28	W123.67	A/B	19 48	20 36			19 48	20 36	19 50	20 18
665 N	21	00	03	E 042.94	B	20 36	21 35	20 36	21 33	20 36	21 35		
666 D	21	53	42	W150.50	B/A	21 35	22 24			21 35	22 24	21 37	22 05
666 N	22	47	17	E 016.12	A	22 24	23 22	22 23	23 20	22 24	23 22		
667 D	23	40	56	W177.31	A	23 22	00 11			23 22	00 09	23 24	00 10
667 N	00	34	31	W010.70	B	00 11	01 10	00 11	01 07	00 11	01 10		

TABLE 2-2
SENSOR ON – OFF TIMES
DATE 28 MAY 1970

DATA ORBIT	ASCEND/DESCEND NODE				HDRSS	IRIS				THIR HUMIDITY				THIR TEMP				IDCS			
	TIME			LONG		ON		OFF		ON		OFF		ON		OFF		ON		OFF	
	HR	MIN	SEC	DEG		HR	MIN	HR	MIN	HR	MIN	HR	MIN	HR	MIN	HR	MIN	HR	MIN	HR	MIN
668 D	01	28	11	E 155.90	B	01	10	01	58					01	10	01	58	01	12	01	53
668 N	02	21	45	W037.52	B	01	58	02	10	01	58	02	10	01	58	02	10				
669 D	03	15	25	E 129.09																	
669 N	04	08	59	W064.29																	
670 D	05	02	39	E 102.27																	
670 N	05	56	14	W091.12	B	05	45	06	31	05	45	06	29	05	44	06	31				
671 D	06	49	53	E 075.46	B	06	31	07	20					06	31	07	20	06	34	07	15
671 N	07	43	28	W117.93	A	07 07	20 31	07 08	25 19	07	26	08	16								
672 D	08	37	07	E 048.67	A	08	19	09	06	08	29	09	06								
672 N	09	30	42	W144.75	B	09	07	10	06	09	07	10	04	09	07	10	06				
673 D	10	24	21	E 021.86	B	10	06	10	51					10	06	10	51	10	08	10	50
673 N	11	17	56	W171.53	A	11	48	11	53	10	54	11	51	10	54	11	53				
674 D	12	11	35	W004.97	A	11	53	12	39					11	53	12	39	11	52	12	37
674 N	13	05	10	E 161.65	B	13	35	13	40	12	41	13	38	12	42	13	40				
675 D	13	58	50	W031.78	B	13	40	14	23					13	40	14	22	13	39	14	21
675 N	14	52	24	E 134.84	B	14	46	15	28	14	29	15	25	14	29	15	28				
676 D	15	46	04	W058.60	B/A	15	28	16	16					15	28	16	16	15	27	16	05
676 N	16	39	38	E 108.01	A	16	16	17	15	16	16	17	13	16	16	17	15				
677 D	17	33	18	W085.38	A/B	17	15	17	50					17	15	18	03	17	14	17	48
677 N	18	26	53	E 081.20	B					18	03	19	00	18	03	19	02				
678 D	19	20	32	W112.20	B/A	19	03	19	33					19	02	19	51	19	04	19	32
678 N	20	14	07	E 054.41	A					19	50	20	48	19	51	20	49				
679 D	21	07	46	W139.01	A/B	20	57	21	38					20	49	21	38	20	48	21	23
679 N	22	01	21	E 027.60	B	21	38	22	36	21	37	22	34	21	38	22	36				
680 D	22	55	01	W165.84	B	22	36	23	09					22	36	23	25	22	38	23	10
680 N	23	48	35	E 000.78	A					23	25	00	21	23	25	00	24				

TABLE 2-2
SENSOR ON – OFF TIMES
DATE 29 MAY 1970

DATA ORBIT	ASCEND/DESCEND NODE TIME HR	MIN	SEC	LONG DEG	HDRSS	IRIS ON HR MIN	IRIS OFF HR MIN	THIR HUMIDITY ON HR MIN	THIR HUMIDITY OFF HR MIN	THIR TEMP ON HR MIN	THIR TEMP OFF HR MIN	IDCS ON HR MIN	IDCS OFF HR MIN
681 D	00	42	15	E 167.39	A					00 24	01 12	00 23	01 07
681 N	01	35	49	W026.03	B			01 12	02 09	01 12	02 11		
682 D	02	29	29	E 140.57	B					02 11	02 41	02 10	02 48
682 N	03	23	03	W052.82									
683 D	04	16	43	E 113.75									
683 N	05	10	17	W079.63	B	05 02	05 45	05 03	05 43	05 03	05 45		
684 D	06	03	57	E 086.93	B	05 45	06 34			05 45	06 34	05 44	06 39
684 N	06	57	32	W106.46	A	06 34	07 33	06 40	07 30	06 40	07 33		
685 D	07	51	11	E 060.16	A	07 33	08 21	07 48	08 25	07 33	08 21	07 32	07 45
685 N	08	44	46	W133.27	B	08 21	09 20	08 25	09 18	08 25	09 20		
686 D	09	38	25	E 033.33	B	09 20	10 06			09 20	10 05	09 22	10 04
686 N	10	32	00	W160.06	A			10 08	11 05	10 08	11 07		
687 D	11	25	40	E 006.52	A	11 12	11 56			11 07	11 52	11 06	11 51
687 N	12	19	14	E 173.18	B	11 56	12 54	11 55	12 52	11 56	12 54		
688 D	13	12	54	W020.30	B	12 54	13 43			12 54	13 38	12 53	13 38
688 N	14	06	28	E 146.31	A	13 43	14 42	13 42	14 39	13 43	14 42		
689 D	15	00	08	W047.11	A	14 42	15 30			14 42	15 22	14 40	15 22
689 N	15	53	42	E 119.50	B	15 30	16 29	15 30	16 27	15 30	16 29		
690 D	16	47	22	W073.90	B/A	16 29	17 17			16 29	17 17	16 28	17 02
690 N	17	40	57	E 092.67	A	17 17	18 16	17 17	18 14	17 17	18 16		
691 D	18	34	36	W100.71	A/B	18 16	19 05			18 16	19 05	18 15	18 49
691 N	19	28	11	E 065.90	B	19 05	20 03	19 04	20 01	19 05	20 03		
692 D	20	21	56	W127.54	B/A	20 03	20 52			20 03	20 52	20 02	20 33
692 N	21	15	25	E 039.07	A	20 52	21 51	20 51	21 48	20 52	21 51		
693 D	22	09	05	W154.35	A/B	21 51	22 39			21 51	22 39	21 49	22 24
693 N	23	02	39	E 012.26	B	22 39	23 38	22 39	23 35	22 39	23 38		
694 D	23	56	19	E 178.86	B	23 38	00 26			23 38	00 26	23 37	00 25
694 N	00	49	53	W014.56	A	00 26	01 25	00 26	01 23	00 26	01 25		

TABLE 2-2
SENSOR ON – OFF TIMES
DATE 30 MAY 1970

DATA ORBIT	ASCEND/DESCEND NODE				HDRSS	IRIS		THIR HUMIDITY		THIR TEMP		IDCS	
	TIME			LONG		ON	OFF	ON	OFF	ON	OFF	ON	OFF
	HR	MIN	SEC	DEG		HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN
695 D	01	43	33	E 152.05	A	01 25	02 14			01 25	02 14	01 24	02 09
695 N	02	37	07	W041.34	A	02 14	02 26	02 13	02 25	02 14	02 26		
696 D	03	30	47	E 125.23									
696 N	04	24	21	W068.16	A	04 18	05 00	04 18	04 57	04 20	05 00		
697 D	05	18	01	E 098.42	A	05 00	05 54			05 00	05 48	05 02	05 44
697 N	06	11	36	W094.97	A			06 00	06 44	05 48	05 55		
697 N	06	11	36	W094.97	A					06 00	06 47		
698 D	07	05	15	E 071.59	A	07 31	07 35	07 02	07 35	06 47	07 35	06 46	06 59
698 N	07	58	50	W121.80	B/A	07 35	08 34	07 35	08 32	07 35	08 34		
699 D	08	52	29	E 044.82	B	08 34	09 21	08 50	09 21	08 34	09 20	08 33	08 47
699 N	09	46	04	W148.61	A	09 27	10 21	09 27	10 19	09 27	10 21		
700 D	10	39	44	E 017.99	A	10 21	11 07			10 21	11 07	10 20	11 05
700 N	11	33	18	W175.39	B	11 09	12 08	11 09	12 06	11 10	12 08		
701 D	12	26	58	W008.82	B	12 08	12 53			12 08	12 53	12 08	12 53
701 N	13	20	32	E 157.79	A	13 05	13 56	13 05	13 54	13 05	13 56		
702 D	14	14	12	W035.64	A	13 56	14 40			13 56	14 40	13 55	14 40
702 N	15	07	45	E 130.97	B	15 38	15 43	14 44	15 41	14 44	15 43		
703 D	16	01	26	W062.42	B	15 43	16 21			15 43	16 21	15 42	16 20
703 N	16	55	00	E 104.16	B			16 31	17 28	16 32	17 30		
704 D	17	48	40	W089.24	B	17 40	18 19			17 30	18 06	17 30	18 04
704 N	18	42	15	E 077.37	A	18 19	19 17	18 18	19 15	18 28	19 17		
705 D	19	35	54	W116.05	B	19 17	19 49			19 17	19 49	19 16	19 47
705 D	19	35	54	W116.05	A	19 55	20 06			19 55	20 06		
705 N	20	29	29	E 050.56	A	20 06	21 05	20 05	21 02	20 06	21 05		
706 D	21	23	09	W142.87	A/B	21 05	21 53			21 05	21 53	21 04	21 35
706 N	22	16	43	E 023.74	B	21 53	22 52	21 53	22 48	21 53	22 52		
707 D	23	10	23	W169.69	B/A	22 52	23 40			22 52	23 40	22 51	23 22
707 N	00	03	57	W003.07	A	23 40	00 39	23 40	00 37	23 40	00 39		

TABLE 2-2
SENSOR ON – OFF TIMES
DATE 31 MAY 1970

DATA ORBIT	ASCEND/DESCEND NODE				HDRSS	IRIS		THIR HUMIDITY		THIR TEMP		IDCS	
	TIME			LONG		ON	OFF	ON	OFF	ON	OFF	ON	OFF
	HR	MIN	SEC	DEG		HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN
708 D	00	57	37	E 163.53	A	00 39	01 28			00 39	01 28	00 38	01 27
708 N	01	51	11	W029.85	B	01 28	02 26	01 28	02 24	01 28	02 26		
709 D	02	44	51	E 136.72	B	02 26	03 15			02 26	03 15	02 26	03 14
709 N	03	38	25	W056.67	B	03 15	03 29	03 14	03 29	03 15	03 30		
710 D	04	32	05	E 109.89									
710 N	05	25	40	W083.50	B	05 17	06 01	05 17	05 57	05 17	06 01		
711 D	06	19	19	E 083.08	B	06 01	06 49			06 01	06 49	06 00	06 49
711 N	07	12	54	W110.31	A/B	06 49	07 48	06 57	07 46	06 49	07 48		
712 D	08	06	34	E 056.29	A	07 48	08 35	08 04	08 35	07 48	08 35	07 47	08 01
712 N	09	00	08	W137.13	B	08 36	09 35	08 36	09 33	08 37	09 35		
713 D	09	53	48	E 029.48	B	09 35	10 21			09 35	10 20	09 34	10 20
713 N	10	47	22	W163.91	A	10 23	11 23	10 23	11 20	10 24	11 23		
714 D	11	41	02	E 002.66	A	11 23	12 11			11 23	12 08	11 22	12 07
714 N	12	34	36	E 169.27	B	12 11	13 10			12 11	13 10		
715 D	13	28	16	W024.15	B	13 10	13 58			13 10	13 55		
715 N	14	21	50	E 142.46	A	13 58	14 57	13 58	14 55	13 58	14 57		
716 D	15	15	30	W050.98	A	14 57	15 36			14 57	15 35	14 56	15 34
716 N	16	09	04	E 115.63	A	15 43	16 44	15 45	16 42	15 46	16 44		
717 D	17	02	44	W077.75	A/B	16 44	17 33			16 44	17 33	16 44	17 18
717 N	17	56	19	E 088.86	B	17 33	18 32	17 32	18 29	17 33	18 32		
718 D	18	49	58	W104.58	B/A	18 32	19 20			18 32	19 20	18 31	19 05
718 N	19	43	33	E 062.03	A	19 20	20 19	19 20	20 17	19 20	20 19		
719 D	20	37	13	W131.39	A/B	20 19	21 07			20 19	21 07	20 18	20 49
719 N	21	30	47	E 035.22	B	21 07	22 06	21 07	22 04	21 07	22 06		
720 D	22	24	27	W158.21	B/A	22 06	22 55			22 06	22 55	22 05	22 36
720 N	23	18	01	E 008.40	A	22 55	23 53	22 54	23 51	22 55	23 53		

TABLE 2-2
SENSOR ON – OFF TIMES
DATE 1 JUNE 1970

DATA ORBIT	ASCEND/DESCEND NODE				HDRSS	IRIS		THIR HUMIDITY		THIR TEMP		IDCS	
	TIME			LONG		ON	OFF	ON	OFF	ON	OFF	ON	OFF
	HR	MIN	SEC	DEG		HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN
721 D	00	11	41	E 175.01	A	23 53	00 42			23 53	00 42	23 53	00 38
721 N	01	05	15	W018.41	B	00 42	01 41	00 41	01 38	00 42	01 41		
722 D	01	58	55	E 148.20	B	01 41	02 29			01 41	02 29	01 40	02 25
722 N	02	52	29	W045.19	B	02 29	02 41	02 28	02 41	02 29	02 41		
723 D	03	46	09	E 121.38									
723 N	04	39	44	W072.01	B	04 34	05 15	04 34	05 13	04 34	05 15		
724 D	05	33	23	E 094.56	B	05 15	06 04			05 15	06 04	05 14	05 59
724 N	06	26	58	W098.83	B	06 04	06 10	06 16	07 00	06 04	06 10		
724 N	06	26	58	W098.83	B	06 16	07 02			06 16	07 02		
725 D	07	20	38	E 067.75	B	07 02	07 52	07 18	07 51	07 02	07 51	07 01	07 15
725 N	08	14	12	W125.64	A			07 52	08 47	07 52	08 49		
726 D	09	07	52	E 040.96	A	09 28	09 33	09 05	09 36	08 49	09 36	08 48	09 03
726 N	10	01	26	W152.43	B	09 37	10 37	09 37	10 34	09 38	10 37		
727 D	10	55	06	E 014.15	B	10 37	11 25			10 37	11 22	10 35	11 21
727 N	11	48	40	W179.24	A	11 25	12 24	11 24	12 22	11 24	12 24		
728 D	12	42	20	W012.67	A	12 24	13 13			12 24	13 08	12 23	13 08
728 N	13	35	54	E 153.94	B	13 13	14 11	13 12	14 09	13 12	14 11		
729 D	14	29	34	W039.48	B	14 11	15 00			14 11	14 45	14 10	14 41
729 N	15	23	08	E 127.12	A	15 00	15 58	14 59	15 56	15 00	15 58		
730 D	16	16	48	W066.27	B/A	15 58	16 47			15 58	16 47	15 57	16 18
730 N	17	10	23	E 100.30	B	16 47	17 46	16 46	17 43	16 47	17 46		
731 D	18	04	03	W093.08	B	17 46 18 28	18 22 19 34			17 46	18 16	17 45	18 20
731 N	18	57	37	E 073.53	A	18 34	19 33	18 34	19 31	18 34	19 33		
732 D	19	51	17	W119.91	A/B	19 33	20 21			19 33	20 21	19 32	20 03
732 N	20	44	51	E 046.70	B	20 21	21 20	20 21	21 14	20 21	21 20		
733 D	21	38	31	W146.72	B	21 20	21 52			21 20	21 52	21 23	21 50
733 N	22	32	05	E 019.89	A	22 19	23 07	22 20	23 05	22 17	23 07		
734 D	23	25	45	W173.51	B	23 07	23 66			23 07	23 55	23 06	23 51
734 N	00	19	19	W006.93	A	23 56	00 55	23 55	00 52	23 56	00 55		

TABLE 2-2
SENSOR ON – OFF TIMES
DATE 2 JUNE 1970

DATA ORBIT	ASCEND/DESCEND NODE				HDRSS	IRIS		THIR HUMIDITY		THIR TEMP		IDCS	
	TIME			LONG		ON	OFF	ON	OFF	ON	OFF	ON	OFF
	HR	MIN	SEC	DEG		HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN
735 D	01	12	59	E 159.68	B	00 55	01 43			00 55	01 43	01 00	01 39
735 N	02	06	33	W033.71	B	01 43	01 55	01 43	01 56	01 43	01 56		
736 D	03	00	13	E 132.86									
736 N	03	53	47	W060.53									
737 D	04	47	27	E 106.05									
737 N	05	41	02	W087.34	B	05 33	06 16	05 33	06 14	05 33	06 16		
738 D	06	34	42	E 079.22	B	06 16	07 05			06 16	07 05	06 16	07 04
738 N	07	28	16	W114.16	A/B	07 05	08 04	07 13	08 01	07 05	08 04		
739 D	08	21	56	E 052.45	A	08 04	08 52	08 19	08 51	08 04	08 51	08 03	08 17
739 N	09	15	30	W140.94	B	08 52	09 51	08 52	09 48	08 52	09 51		
740 D	10	09	10	E 025.62	B	09 51	10 39			09 51	10 37	09 50	10 32
740 N	11	02	44	W167.75	A	10 39	11 38	10 39	11 36	10 39	11 38		
741 D	11	56	24	W001.19	A	11 38	12 27			11 38	12 23	11 37	12 22
741 N	12	49	58	E 165.42	B	12 27	13 25	12 26	13 23	12 27	13 25		
742 D	13	43	38	W028.01	B	13 25	14 14			13 25	14 08	13 24	14 06
742 N	14	37	12	E 138.61	A	14 14	15 13	14 13	15 10	14 14	15 13		
743 D	15	30	52	W054.79	A	15 13	15 55			15 13	15 55	15 12	15 53
743 N	16	24	27	E 111.79	B			16 00	16 57	16 01	17 00		
744 D	17	18	07	W081.61	A/B	17 24	17 48			17 00	17 48	16 59	17 16
744 N	18	11	41	E 085.01	A	17 48	18 47	17 48	18 44	17 48	18 47		
745 D	19	05	21	W108.42	A/B	18 47	19 36			18 47	19 36	18 46	19 21
745 N	19	58	55	E 058.19	B	19 36	20 34	19 35	20 31	19 36	20 34		
746 D	20	52	35	W135.25	B/A	20 34	21 23			20 34	21 23	20 33	21 04
746 N	21	46	09	E 031.38	A	21 23	22 22	21 22	22 19	21 23	22 22		
747 D	22	39	49	W162.06	A/B	22 22	23 10			22 22	23 10	22 21	22 55
747 N	23	33	23	E 004.55	B	23 10	00 09	23 09	00 06	23 10	00 09		

TABLE 2-2
SENSOR ON – OFF TIMES
DATE 3 JUNE 1970

DATA ORBIT	ASCEND/DESCEND NODE				HDRSS	IRIS		THIR HUMIDITY		THIR TEMP		IDCS	
	TIME			LONG		ON	OFF	ON	OFF	ON	OFF	ON	OFF
	HR	MIN	SEC	DEG		HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN
748 D	00	27	03	E 171.16	B	00 09	00 57			00 09	00 57	00 08	00 53
748 N	01	20	37	W022.22	A	00 57	01 56	00 56	01 53	00 57	01 56		
749 D	02	14	17	E 144.35	A	01 56	02 45			01 56	02 45	01 55	02 40
749 N	03	07	51	W049.05	A	02 45	02 57	02 44	02 56	02 45	02 56		
750 D	04	01	32	E 117.52									
750 N	04	55	06	W075.86	A	04 46	05 30	04 46	05 28	04 46	05 30		
751 D	05	48	46	E 090.71	A	05 30	06 19			05 30	06 19	05 30	06 15
751 N	06	42	20	W102.68	B/A	06 19	07 18	06 27	07 15	06 19	07 18		
752 D	07	36	00	E 063.92	B	07 18	08 06	07 33	08 07	07 18	08 06	07 17	07 31
752 N	08	29	34	W129.49	A	08 06	09 05	08 08	09 02	08 09	09 05		
753 D	09	23	14	E 037.11	A	09 05	09 53			09 05	09 53	09 04	09 49
753 N	10	16	48	W156.28	B	09 53	10 52	09 55	10 49	09 55	10 52		
754 D	11	10	28	E 010.29	B	10 52	11 41			10 52	11 39	10 55	11 36
754 N	12	04	02	E 176.91	A	11 41	12 39	11 41	12 37	11 41	12 39		
755 D	12	57	42	W016.52	A	12 39	13 28			12 39	13 23	12 39	13 20
755 N	13	51	16	E 150.08	B	13 28	14 27	13 27	14 24	13 28	14 27		
756 D	14	44	56	W043.35	B	14 27	15 15			14 27	15 15	14 25	15 07
756 N	15	38	30	E 123.27	B	15 15	16 14	15 14	16 11	15 15	16 14		
757 D	16	32	11	W070.12	B/A	16 14	17 02			16 14	17 02	16 13	16 51
757 N	17	25	45	E 096.48	A	17 02	18 01	17 02	17 59	17 02	18 01		
758 D	18	19	25	W096.95	A	18 01	18 50			18 01	18 50	18 00	18 35
758 N	19	12	59	E 069.67	A	18 50	19 48	18 49	19 46	18 50	19 48		
759 D	20	06	39	W123.76	A/B	19 48	20 37			19 48	20 37	19 47	20 19
759 N	21	00	13	E 042.85	B	20 37	21 36	20 36	21 33	20 37	21 36		
760 D	21	53	53	W150.58	B/A	21 36	22 24			21 36	22 24	21 35	22 06
760 N	22	47	27	E 016.04	A	22 24	23 23	22 23	23 20	22 24	23 23		
761 D	23	41	07	W177.36	A	23 23	00 11			23 23	00 11	23 22	00 04
761 N	00	34	41	W010.75	B	00 11	01 10	00 11	01 08	00 11	01 10		

TABLE 2-2
SENSOR ON – OFF TIMES
DATE 4 JUNE 1970

DATA ORBIT	ASCEND/DESCEND NODE				HDRSS	IRIS		THIR HUMIDITY		THIR TEMP		IDCS	
	TIME			LONG		ON	OFF	ON	OFF	ON	OFF	ON	OFF
	HR	MIN	SEC	DEG		HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN
762 D	01	28	21	E 155.82	B	01 10	01 59			01 10	01 59	01 09	01 51
762 N	02	21	55	W037.56	B	01 59	02 11	01 58	02 10	01 59	02 10		
763 D	03	15	36	E 129.01									
763 N	04	09	09	W064.39									
764 D	05	02	50	E 102.18									
764 N	05	56	24	W091.20	B	05 46	06 32	05 46	06 29	05 46	06 32		
765 D	06	50	04	W075.37	B	06 32	07 20			06 32	07 20	06 31	07 16
765 N	07	43	38	W118.02	A/B	07 20	08 19	07 27	08 16	07 20	08 19		
766 D	08	37	18	E 048.58	A	08 19	09 08	08 34	09 07	08 19	09 08	08 18	08 31
766 N	09	30	52	W144.80	B	09 08	10 06	09 09	10 04	09 09	10 06		
767 D	10	24	32	E 021.77	B	10 06	10 55			10 06	10 54	10 05	10 53
767 N	11	18	06	W171.62	A	10 55	11 54	10 55	11 51	10 55	11 54		
768 D	12	11	46	W005.05	A	11 54	12 42			11 54	12 39	11 53	12 38
768 N	13	05	20	E 161.57	B	12 42	13 41	12 41	13 38	12 42	13 41		
769 D	13	59	01	W031.86	B	13 41	14 24			13 41	14 23	13 40	14 21
769 N	14	52	34	E 134.74	A			14 28	15 25	14 29	15 28		
770 D	15	46	15	W058.65	A	15 54	16 17			15 28	15 46	15 27	15 44
770 D	15	46	15	W058.65	B					15 54	16 17		
770 N	16	39	49	E 107.97	B	16 17	17 15	16 16	17 13	16 17	17 15		
771 D	17	33	29	W085.46	B/A	17 15	17 52			17 15	18 04	17 14	17 53
771 N	18	27	03	E 081.15	A	18 08	19 02	18 03	19 00	18 04	19 02		
772 D	19	20	43	W112.28	A/B	19 02	19 51			19 02	19 51	19 01	19 36
772 N	20	14	17	E 054.33	B	19 51	20 50	19 50	20 48	19 51	20 50		
773 D	21	07	57	W139.10	B/A	20 50	21 38			20 50	21 38	20 49	21 24
773 N	22	01	31	E 027.51	A	21 38	22 37	21 37	22 34	21 38	22 37		
774 D	22	55	11	W165.92	A/B	22 37	23 10			22 37	23 25	22 36	23 11
774 N	23	48	45	E 000.70	B			23 25	00 22	23 25	00 24		

TABLE 2-2
SENSOR ON – OFF TIMES
DATE 5 JUNE 1970

DATA ORBIT	ASCEND/DESCEND NODE				HDRSS	IRIS		THIR HUMIDITY		THIR TEMP		IDCS	
	TIME			LONG		ON	OFF	ON	OFF	ON	OFF	ON	OFF
	HR	MIN	SEC	DEG		HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN
775 D	00	42	26	E 167.31	B					00 24	01 13	00 23	01 08
775 N	01	35	59	W026.09	A			01 12	02 09	01 13	02 11		
776 D	02	29	40	E140.48	A					02 11	03 00	02 10	02 52
776 N	03	23	13	W052.90	A			02 59	03 12	03 00	03 10		
777 D	04	16	54	E 113.67									
777 N	05	10	28	W079.72	B			05 02	05 43	05 03	05 46		
778 D	06	04	08	E 086.85	B					05 46	06 34	05 45	06 30
778 N	06	57	42	W106.54	B	06 42	07 33	06 53	07 33	06 34	07 33		
779 D	07	51	22	E 060.07	B	07 33	08 22	07 33	07 41	07 33	08 21	07 32	07 46
779 D	07	51	22	E 060.07	B			07 48	08 22				
779 N	08	44	56	W133.32	A	08 22	09 20	08 22	09 18	08 22	09 20		
780 D	09	38	36	E 033.25	A	09 20	10 09			09 20	10 07	09 20	10 04
780 N	10	32	10	W160.13	B	10 09	11 08	10 09	11 06	10 09	11 08		
781 D	11	25	50	E 006.44	B	11 08	11 56			11 08	11 53	11 07	11 52
781 N	12	19	24	E 173.04	A	11 56	12 55	11 55	12 52	11 56	12 55		
782 D	13	13	05	W020.37	A	12 55	13 43			12 55	13 39	12 54	13 39
782 N	14	06	38	E 146.23	B	13 43	14 42	13 42	14 39	13 43	14 42		
783 D	15	00	19	W047.20	B	14 42	15 23			14 42	15 20	14 41	15 16
783 N	15	53	52	E 119.44	B	15 29	16 29	15 30	16 27	15 30	16 29		
784 D	16	47	33	W073.97	B/A	16 29	17 18			16 29	17 18	16 28	17 06
784 N	17	41	07	E 092.63	A	17 18	18 17	17 17	18 14	17 18	18 17		
785 D	18	34	47	W100.80	B	18 17	19 05			18 17	19 05	18 15	18 50
785 N	19	28	21	E 065.81	B	19 05	20 04	19 04	20 01	19 05	20 04		
786 D	20	22	01	W127.61	B/A	20 04	20 52			20 04	20 52	20 03	20 31
786 N	21	15	35	E 039.00	A	20 52	21 51	20 52	21 49	20 52	21 51		
787 D	22	09	15	W154.43	A	21 51	22 25			21 51	22 40	21 50	22 24
787 N	23	02	49	E 012.17	B			22 38	23 35	22 40	23 38		
788 D	23	56	30	E 178.79	B					23 38	00 27	23 37	00 19
788 N	00	50	03	W014.60	A			00 26	01 23	00 27	01 26		

TABLE 2-2
SENSOR ON – OFF TIMES
DATE 6 JUNE 1970

DATA ORBIT	ASCEND/DESCEND NODE				HDRSS	IRIS		THIR HUMIDITY		THIR TEMP		IDCS	
	TIME			LONG		ON	OFF	ON	OFF	ON	OFF	ON	OFF
	HR	MIN	SEC	DEG		HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN
789 D	01	43	44	E 151.97	A					01 26	02 14	01 38	02 03
789 N	02	37	17	W041.43	A			02 14	02 28	02 14	02 27		
790 D	03	30	58	E 125.16									
790 N	04	24	32	W068.24	A			04 19	04 57	04 18	05 00		
791 D	05	18	12	E 098.33	A					05 00	05 49	04 59 05 17	05 06 05 44
791 N	06	11	46	W095.06	A			06 02	06 45	06 02	06 47		
792 D	07	05	26	E 071.56	A			07 03	07 36	06 47	07 36		
792 N	07	59	00	W121.84	B/A	07 43	08 34	07 36	08 32	07 36	08 34		
793 D	08	52	40	E 044.73	B	08 34	09 23	08 50	09 22	08 34	09 21	08 33	08 47
793 N	09	46	14	W148.66	A	09 23	10 22	09 22	10 19	09 23	10 22		
794 D	10	39	55	E 017.92	A	10 22	11 10			10 22	11 07		
794 N	11	33	28	W175.47	B	11 10	12 09	11 10	12 06	11 10	12 09		
795 D	12	27	09	W008.90	B	12 09	12 58			12 09	12 54	12 08	12 53
795 N	13	20	42	E 157.70	A	12 58	13 56	12 57	13 53	12 58	13 56		
796 D	14	14	23	W035.71	A	13 56	14 45			13 56	14 38	13 55	14 37
796 N	15	07	56	E 130.89	B	14 45	15 43	14 44	15 41	14 45	15 43		
797 D	16	01	37	W062.50	B/A	15 43	16 32			15 43	16 32	15 43	16 21
797 N	16	55	11	E 104.10	A	16 32	17 31	16 31	17 28	16 32	17 31		
798 D	17	48	51	W089.31	A/B	17 31	18 19			17 31	18 19		
798 N	18	42	25	E 077.29	B	18 19	19 18	18 18	19 15	18 19	19 18		
799 D	19	36	05	W116.14	B/A	19 18	20 06			19 18	20 06	19 17	19 48
799 N	20	29	39	E 050.47	A	20 06	21 05	20 05	21 02	20 06	21 05		
800 D	21	23	19	W142.95	A	21 05	21 38			21 05	21 37	21 04	21 35
800 N	22	16	53	E 023.66	B	21 58	22 52	21 54	22 49	21 54	22 52		
801 D	23	10	34	W169.73	B/A	22 52	23 29			22 52	23 41	22 52	23 26
801 N	00	04	07	W003.13	A			23 40	00 37	23 41	00 40		

TABLE 2-2
SENSOR ON – OFF TIMES
DATE 7 JUNE 1970

DATA ORBIT	ASCEND/DESCEND NODE				HDRSS	IRIS				THIR HUMIDITY				THIR TEMP				IDCS			
	TIME			LONG		ON		OFF		ON		OFF		ON		OFF		ON		OFF	
	HR	MIN	SEC	DEG		HR	MIN	HR	MIN	HR	MIN	HR	MIN	HR	MIN	HR	MIN	HR	MIN	HR	MIN
802 D	00	57	48	E 163.45	A									00	40	01	28	00	39	01	24
802 N	01	51	21	W029.94	B	01	30	02	27	01	30	02	24	01	30	02	27				
803 D	02	45	02	E 136.63	B	02	27	03	15					02	27	03	15	02	26	03	11
803 N	03	38	35	W056.77	B	03	15	03	22	03	14	03	32	03	15	03	31				
804 D	04	32	16	E 109.82																	
804 N	05	25	50	W083.58	A					05	16	05	58	05	16	06	01				
805 D	06	19	30	E 083.00	A									06	01	06	50	06	00	06	45
805 N	07	13	04	W110.35	A	06	59	07	49	06	49	07	46	06	50	07	49				
806 D	08	06	44	E 056.22	A	07	49	08	36					07	49	08	34	07	48	08	33
806 N	09	00	18	W137.18	B	08	43	09	36	08	43	09	33	08	43	09	36				
807 D	09	53	59	E 029.40	B	09	36	10	24					09	36	10	22	09	35	10	20
807 N	10	47	32	W163.99	A	10	24	11	23	10	24	11	20	10	24	11	23				
808 D	11	41	13	E 002.59	A	11	23	12	12					11	23	12	09	11	22	12	07
808 N	12	34	46	E 169.19	B	12	12	13	10	12	1	13	07	12	11	13	10				
809 D	13	28	27	W024.24	B	13	10	13	59					13	10	13	54	13	09	13	54
809 N	14	22	00	E 142.38	A	13	59	14	58	13	58	14	55	13	59	14	58				
810 D	15	15	41	W051.01	A	14	58	15	46					14	58	15	39	14	57	15	38
810 N	16	09	14	E 115.59	B	15	46	16	45	15	45	16	42	15	46	16	45				
811 D	17	02	55	W077.84	B	16	45	17	33					16	45	17	33	16	44	17	22
811 N	17	56	29	E 088.78	A	17	33	18	32	17	32	18	29	17	33	18	32				
812 D	18	50	09	W104.65	A/B	18	32	19	21					18	32	19	21	18	31	19	16
812 N	19	43	43	E 061.95	B	19	21	20	19	19	20	20	16	19	21	20	19				
813 D	20	37	24	W131.47	B/A	20	19	21	08					20	19	21	08	20	18	20	53
813 N	21	30	57	E 035.14	A	21	08	22	07	21	08	22	05	21	08	22	06				
814 D	22	24	38	W158.28	A	22	07	22	55					22 22	06 44	22 22	40 55	22	09	22	37
814 N	23	18	11	E 008.35	B	22	55	23	54	22	55	23	52	22	55	23	54				

TABLE 2-2
SENSOR ON – OFF TIMES
DATE 8 JUNE 1970

DATA ORBIT	ASCEND/DESCEND NODE				HDRSS	IRIS		THIR HUMIDITY		THIR TEMP		IDCS	
	TIME			LONG		ON	OFF	ON	OFF	ON	OFF	ON	OFF
	HR	MIN	SEC	DEG		HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN
815 D	00	11	52	E 174.93	B	23 54	00 42			23 54	00 42	23 56	00 41
815 N	01	05	25	W018.46	A			00 42	01 40	00 42	01 41		
816 D	01	59	06	E 148.12	A					01 41	02 30	01 43	02 28
816 N	02	52	39	W045.28	A			02 30	02 41	02 30	02 41		
817 D	03	46	20	E 121.29									
817 N	04	39	53	W072.09	A			04 33	05 15	04 33	05 15		
818 D	05	33	34	E 094.48	A					05 15	06 04	05 18	06 03
818 N	06	27	08	W098.92	A	06 23	07 03	06 23	07 01	06 04 06 23	06 11 07 03		
819 D	07	20	46	E 067.69	A	07 03	07 51	07 18	07 53	07 03	07 47	07 05	07 17
819 N	08	14	22	W125.69	B	07 54	08 50	07 54	08 49	07 54	08 50		
820 D	09	08	03	E 040.88	B	08 50	09 38	09 05	09 30	08 50	09 36	08 50	09 03
820 N	10	01	36	W152.52	A	09 38	10 37	09 38	10 36	09 38	10 37		
821 D	10	55	17	E 014.06	A	10 37	11 26			10 37	11 20	10 40	11 20
821 N	11	48	50	W179.33	B	11 26	12 24	11 26	12 23	11 26	12 24		
822 D	12	42	31	W012.75	B	12 24	13 13			12 24	13 10	12 27	13 09
822 N	13	36	04	E 153.85	A	13 13	14 12	13 13	14 11	13 13	14 12		
823 D	14	29	45	W039.58	A	14 12	14 56			14 12	14 55	14 14	14 52
823 N	15	23	18	E 127.07	B			15 00	15 58	15 00	15 59		
824 D	16	16	59	W066.35	B/A	16 16	16 47			15 59	16 47	16 01	16 36
824 N	17	10	33	E 100.25	A	16 47	17 46	16 47	17 45	16 47	17 46		
825 D	18	04	13	W093.18	A/B	17 46	18 35			17 46	18 35	17 48	18 23
825 N	18	57	47	E 073.44	B	18 35	19 33	18 34	19 32	18 35	19 33		
826 D	19	51	28	W119.99	A	19 33	20 22			19 33	20 22	19 36	20 03
826 N	20	45	01	E 046.61	A	20 22	21 21	20 22	21 19	20 22	21 21		
827 D	21	38	42	W146.81	A	21 21	22 09			21 21	22 09	21 23	21 51
827 N	22	32	15	E 019.84	B	22 09	23 08	22 09	23 07	22 09	23 08		
828 D	23	25	56	W173.59	A	23 08	23 56			23 08	23 56	23 10	23 42
828 N	00	19	29	W006.98	A	23 56	00 55	23 56	00 54	23 56	00 55		

TABLE 2-2
SENSOR ON – OFF TIMES
DATE 9 JUNE 1970

DATA ORBIT	ASCEND/DESCEND NODE				HDRSS	IRIS		THIR HUMIDITY		THIR TEMP		IDCS	
	TIME			LONG		ON	OFF	ON	OFF	ON	OFF	ON	OFF
	HR	MIN	SEC	DEG		HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN
829 D	01	13	10	E 159.59	A	00 55	01 44			00 55	01 44	00 57	01 42
829 N	02	06	43	W033.80	B	01 44	02 42	01 44	02 41	01 44	02 42		
830 D	03	00	24	E 132.78	B	02 42	03 31			02 42	03 31	02 44	03 31
830 N	03	53	57	W060.62	B	03 31	03 44	03 31	03 43	03 31	03 43		
831 D	04	47	38	E 105.96									
831 N	05	41	12	W087.43	B	05 31	06 17	05 31	06 16	05 31	06 17		
832 D	06	34	52	E 079.18	B	06 17	07 05			06 17	07 05	06 19	07 04
832 N	07	28	26	W114.22	A/B	07 05	08 04	07 14	08 00	07 05	08 04		
833 D	08	22	07	E 052.36	A	08 04	08 50	08 19	08 52	08 04	08 52	08 06	08 17
833 N	09	15	40	W141.03	B	08 53	09 51	08 53	09 50	08 54	09 51		
834 D	10	09	21	E 025.55	B	09 51	10 38			09 51	10 38	09 53	10 38
834 N	11	02	54	W167.85	A	10 40	11 38	10 40	11 37	10 40	11 38		
835 D	11	56	35	W001.28	A	11 38	12 27			11 38	12 24	11 41	12 22
835 N	12	50	08	E 165.33	B	12 27	13 26	12 27	13 25	12 27	13 26		
836 D	13	43	49	W028.09	B	13 26	14 14			13 26	14 10	13 28	14 09
836 N	14	37	22	E 138.55	A	14 14	15 13	14 14	15 12	14 14	15 13		
837 D	15	31	03	W054.88	A/B	15 13	16 02			15 13	16 02	15 15	15 53
837 N	16	24	36	E 111.74	B	16 02	17 00	16 01	16 58	16 02	17 00		
838 D	17	18	17	W081.69	B/A	17 00	17 49			17 00	17 49	17 02	17 30
838 N	18	11	51	E 084.91	A	17 49	18 47	17 49	18 46	17 49	18 47		
839 D	19	05	32	W108.51	A/B	18 47	19 36			18 47	19 36	19 24	19 35
839 N	19	59	05	E 058.10	B	19 36	20 35	19 36	20 35	19 36	20 35		
840 D	20	52	46	W135.32	B/A	20 35	21 23			20 35	21 23	20 37	21 05
840 N	21	46	19	E 031.28	A	21 23	22 22	21 23	22 21	21 23	22 22		
841 D	22	40	00	W162.11	A/B	22 22	23 10			22 22	23 10	22 24	22 55
841 N	23	33	33	E 004.50	B	23 10	00 09	23 10	00 08	23 10	00 09		

TABLE 2-2
SENSOR ON – OFF TIMES
DATE 10 JUNE 1970

DATA ORBIT	ASCEND/DESCEND NODE				HDRSS	IRIS				THIR HUMIDITY				THIR TEMP				IDCS			
	TIME			LONG		ON		OFF		ON		OFF		ON		OFF		ON		OFF	
	HR	MIN	SEC	DEG		HR	MIN	HR	MIN	HR	MIN	HR	MIN	HR	MIN	HR	MIN	HR	MIN	HR	MIN
842 D	00	27	14	E 171.08	B	00	09	00	58					00	09	00	58	00	12	00	57
842 N	01	20	47	W022.32	A					00	58	01	55	00	58	01	56				
843 D	02	14	28	E 144.25	A									01	56	02	45	01	59	02	44
843 N	03	08	01	W049.31	A					02	45	02	56	02	45	02	54				
844 D	04	01	42	E 117.44																	
844 N	04	55	15	W075.96	A					04	48	05	30	04	48	05	31				
845 D	05	48	57	E 090.62	A									05	31	06	19	05	33	06	18
845 N	06	42	30	W102.73	B/A	06	21	07	18	06	27	07	17	06	19	07	18				
846 D	07	36	11	E 063.84	B	07	18	08	07	07	33	08	07	07	18	08	06				
846 N	08	29	44	W129.56	A	08	07	09	05	08	07	09	04	08	08	09	05				
847 D	09	23	25	E 037.02	A	09	05	09	54					09	05	09	53	09	08	09	53
847 N	10	16	58	W156.37	B	09	54	10	53	09	55	10	52	09	55	10	53				
848 D	11	10	39	E 010.21	B	10	53	11	41					10	53	11	39	10	55	11	37
848 N	12	04	12	E 176.81	A	11	41	12	40	11	41	12	39	11	41	12	40				
849 D	12	57	53	W016.62	A	12	40	13	28					12	40	13	24	12	42	13	24
849 N	13	51	26	E 150.03	B	13	28	14	27	13	28	14	26	13	28	14	27				
850 D	14	45	07	W043.39	B	14	27	15	11					14	27	15	12	14	29	15	11
850 N	15	38	40	E 123.21	A					15	16	16	13	15	16	16	14				
851 D	16	32	21	W070.22	A/B	16	54	17	03					16	14	17	03	16	13	16	51
851 N	17	25	54	E 096.40	B	17	03	18	02	17	03	18	00	17	03	18	02				
852 D	18	19	36	W097.03	B	18	02	18	50					18	02	18	36	18	04	18	35
852 N	19	13	09	E 069.57	A	18	50	19	49	18	50	19	47	18	50	19	49				
853 D	20	06	50	W123.85	A/B	19	49	20	37					19	49	20	37	19	48	20	19
853 N	21	00	23	E 042.76	B	20	37	21	36	20	37	21	34	20	37	21	36				
854 D	21	54	04	W150.66	B	21	36	22	25					21	36	22	25	21	35	22	06
854 N	22	47	37	E 015.97	A	22	25	23	23	22	25	23	22	22	25	23	23				
855 D	23	41	18	W177.45	A	23	23	00	12					23	23	00	12	23	23	00	08
855 N	00	34	51	W010.84	B	00	12	01	10	00	12	01	09	00	12	01	10				

TABLE 2-2
SENSOR ON – OFF TIMES
DATE 11 JUNE 1970

DATA ORBIT	ASCEND/DESCEND NODE				HDRSS	IRIS		THIR HUMIDITY		THIR TEMP		IDCS	
	TIME			LONG		ON	OFF	ON	OFF	ON	OFF	ON	OFF
	HR	MIN	SEC	DEG		HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN
856 D	01	28	32	E 155.74	B	01 10	01 59			01 10	01 59	01 10	01 58
856 N	02	22	05	W037.66	B	01 59	02 13			01 59	02 13		
857 D	03	15	46	E 128.92									
857 N	04	09	19	W064.47									
858 D	05	03	01	E 102.10									
858 N	05	56	33	W091.26	B	05 45	06 32	05 45	06 30	05 45	06 32		
859 D	06	50	15	E 075.32	B	06 32	07 21			06 32	07 21	06 32	06 59
859 N	07	43	48	W118.07	A	07 21	08 19	07 28	08 18	07 28	08 19		
860 D	08	37	29	E 048.51	A	08 19	09 08	08 38	09 08	08 19	09 08	08 18	08 35
860 N	09	31	02	W144.90	B	09 08	10 07	09 10	10 05	09 10	10 07		
861 D	10	24	43	E 021.68	B	10 07	10 55			10 07	10 52	10 06	10 51
861 N	11	18	16	W171.71	A	10 55	11 54	10 55	11 51	10 55	11 54		
862 D	12	11	57	W005.13	A	11 54	12 39			11 54	12 38	11 56	12 38
862 N	13	05	30	E 161.47	B			12 42	13 38	12 42	13 41		
863 D	13	59	11	W031.95	B	14 11	14 30			13 41	14 23	13 40	14 21
863 N	14	52	44	E 134.69	A	14 30	15 28	14 30	15 25	14 30	15 28		
864 D	15	46	25	W058.73	A	15 28	16 17			15 28	16 07	15 27	16 06
864 N	16	39	58	E 107.87	B	16 17	17 16	16 17	17 14	16 17	17 16		
865 D	17	33	40	W085.55	B/A	17 16	18 04			17 16	18 04	17 15	17 49
865 N	18	27	13	E 081.06	A	18 04	19 03	18 04	19 01	18 04	19 03		
866 D	19	20	54	W112.36	A/B	19 03	19 51			19 03	19 51	19 05	19 37
866 N	20	14	27	E 054.23	B	19 51	20 50	19 51	20 48	19 51	20 50		
867 D	21	08	08	W139.19	B/A	20 50	21 39			20 50	21 39	20 52	21 20
867 N	22	01	41	E 027.46	A	21 39	22 37	21 39	22 34	21 39	22 37		
868 D	22	55	22	W165.96	A/B	22 37	23 26			22 37	23 26	22 40	23 11
868 N	23	48	55	E 000.65	B	23 26	00 25	23 26	00 21	23 26	00 25		

TABLE 2-2
SENSOR ON – OFF TIMES
DATE 12 JUNE 1970

DATA ORBIT	ASCEND/DESCEND NODE				HDRSS	IRIS		THIR HUMIDITY		THIR TEMP		IDCS	
	TIME			LONG		ON	OFF	ON	OFF	ON	OFF	ON	OFF
	HR	MIN	SEC	DEG		HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN
869 D	00	42	36	E 167.21	B	00 25	01 15			00 25	01 10	00 27	01 08
869 N	01	36	09	W026.18	A			01 13	02 10	01 13	02 12		
870 D	02	29	50	E 140.40	A					02 12	03 00	02 11	02 52
870 N	03	23	23	W052.99	A			03 00	03 13	03 00	03 13		
871 D	04	17	05	E 113.58									
871 N	05	10	37	W079.78	A			05 00	05 43	05 00	05 46		
872 D	06	04	19	E 086.80	A					05 46	06 28	05 48	06 30
872 N	06	57	52	W106.59	B	06 41	07 33	06 41	07 32	06 41	07 33		
873 D	07	51	33	E 059.98	B	07 33	08 22	07 52	08 20	07 33	08 20	07 32	07 50
873 N	08	45	06	W133.41	A	08 22	09 21			08 22	09 21		
874 D	09	38	47	E 033.17	A	09 21	10 09			09 21	10 07		
874 N	10	32	20	W160.22	B	10 09	11 08	10 09	11 06	10 09	11 08		
875 D	11	26	01	E 006.34	B	11 08	11 57			11 08	11 53	11 07	11 41
875 N	12	19	34	E 172.95	A	11 57	12 55	11 57	12 52	11 57	12 55		
876 D	13	13	15	W020.47	A	12 55	13 44			12 55	13 39	12 57	13 39
876 N	14	06	48	E 146.18	B	13 44	14 42	13 44	14 41	13 44	14 42		
877 D	15	00	29	W047.26	B/A	14 42	15 31			14 42	15 31	14 45	15 19
877 N	15	54	02	E 119.35	A	15 31	16 30	15 31	16 28	15 31	16 30		
878 D	16	47	44	W074.07	A/B	16 30	17 18			16 30	17 18	16 29	17 07
878 N	17	41	16	E 092.54	B	17 18	18 17	17 18	18 15	17 18	18 17		
879 D	18	34	58	W100.89	B/A	18 17	19 05			18 17	19 05	18 16	18 47
879 N	19	28	31	E 065.72	A	19 05	20 04	19 05	20 02	19 05	20 04		
880 D	20	22	12	W127.70	A/B	20 04	20 37			20 04	20 49	20 03	20 37
880 N	21	15	45	E 038.94	B			20 53	21 49	20 49	21 51		
881 D	22	09	26	W154.49	B	22 20	22 40			21 51	22 40	21 50	22 25
881 N	23	02	59	E 012.12	A	22 40	23 39	22 40	23 37	22 40	23 39		
882 D	23	56	40	E 178.70	A	23 39	00 27			23 39	00 27	23 41	00 23
882 N	00	50	13	W014.69	B	00 27	01 26	00 27	01 17	00 27	01 19		

TABLE 2-2
SENSOR ON – OFF TIMES
DATE 13 JUNE 1970

DATA ORBIT	ASCEND/DESCEND NODE				HDRSS	IRIS		THIR HUMIDITY		THIR TEMP		IDCS	
	TIME			LONG		ON	OFF	ON	OFF	ON	OFF	ON	OFF
	HR	MIN	SEC	DEG		HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN
883 D	01	43	54	E 151.88	B	01 26	02 14						
883 N	02	37	27	W041.52	B	02 14	02 26						
884 D	03	31	09	E 125.06									
884 N	04	24	41	W068.33	B	04 17	05 00	04 18	04 57	04 18	05 00		
885 D	05	18	23	E 098.25	B	05 00	05 49			05 00	05 49	04 59	05 48
885 N	06	11	55	W095.12	B	05 49 06 01	05 54 06 48	06 01	06 46	06 00	06 48		
886 D	07	05	37	E 071.47	B	06 48	07 36	07 06	07 36	06 48	07 36	06 47	07 04
886 N	07	59	10	W121.93	A/B	07 36	08 35	07 36	08 33	07 42	08 35		
887 D	08	52	51	E 044.65	A	08 35	09 23	08 53	09 15	08 35	09 21	08 37	08 51
887 N	09	46	24	W148.75	B	10 01	10 22	09 24	10 20	09 25	10 22		
888 D	10	40	05	E 017.83	B	10 22	11 09			10 22	11 08	10 21	11 06
888 N	11	33	38	W175.56	A	11 11	12 09	11 11	12 07	11 11	12 09		
889 D	12	27	19	W008.98	A	12 09	12 58			12 09	12 54	12 08	12 53
889 N	13	20	52	E 157.65	B	12 58	13 57	12 58	13 55	12 58	13 57		
890 D	14	14	34	W035.77	B	13 57	14 45			13 57	14 37	13 56	14 37
890 N	15	08	06	E 130.84	A	14 45	15 44	14 45	15 42	14 45	15 44		
891 D	16	01	48	W062.58	A/B	15 44	16 32			15 44	16 32	15 43	16 21
891 N	16	55	20	E 104.01	B	16 32	17 31	16 32	17 29	16 32	17 31		
892 D	17	49	02	W089.40	B/A	17 31	18 20			17 31	18 20	17 34	18 19
892 N	18	42	34	E 077.20	A	18 20	19 18	18 19	19 16	18 20	19 18		
893 D	19	36	16	W116.22	B	19 18	20 07			19 18	20 07	19 21	20 06
893 N	20	29	49	E 050.42	B	20 07	21 05	20 07	21 04	20 07	21 05		
894 D	21	23	30	W143.04	B	21 05	21 54			21 05	21 54	21 04	21 53
894 N	22	17	03	E 023.60	A	21 54	22 53	21 54	22 50	21 54	22 53		
895 D	23	10	44	W169.81	A/B	22 53	23 41			22 53	23 41	22 52	23 23
895 N	00	04	17	W003.22	B	23 41	00 40	23 41	00 38	23 41	00 40		

TABLE 2-2
SENSOR ON – OFF TIMES
DATE 14 JUNE 1970

DATA ORBIT	ASCEND/DESCEND NODE				HDRSS	IRIS		THIR HUMIDITY		THIR TEMP		IDCS	
	TIME			LONG		ON	OFF	ON	OFF	ON	OFF	ON	OFF
	HR	MIN	SEC	DEG		HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN
896 D	00	57	58	E 163.36	B	00 40	01 28			00 40	01 28	00 39	01 27
896 N	01	51	31	W030.03	A	01 28	02 27	01 28	02 25	01 29	02 27		
897 D	02	45	13	E 136.55	A	02 27	03 16			02 27	03 16	02 29	03 14
897 N	03	38	45	W056.86	A	03 16	03 28	03 16	03 27	03 16	03 27		
898 D	04	32	27	E 109.73									
898 N	05	25	59	W083.63	A	05 16	06 02	05 27	05 47	05 16 05 53	05 37 06 02		
899 D	06	19	41	E 082.95	A	06 02	06 50			06 02	06 50	06 01	06 49
899 N	07	13	13	W110.45	B/A	06 50	07 49	06 59	07 47	06 50	07 49		
900 D	08	06	55	E 056.13	B	07 49	08 37	08 07	08 38	07 49	08 37	07 49	08 06
900 N	09	00	28	W137.27	A	08 37	09 36	08 40	09 34	08 40	09 36		
901 D	09	54	09	E 029.32	A	09 36	10 25			09 36	10 24	09 35	10 20
901 N	10	47	42	W164.09	B	10 25	11 23	10 25	11 21	10 25	11 23		
902 D	11	41	23	E 002.49	B	11 23	12 11			11 23	12 08	11 22	12 14
902 N	12	34	56	E 169.13	A	12 12	13 10	12 12	13 09	12 12	13 10		
903 D	13	28	38	W024.32	A	13 10	13 59			13 11	13 56	13 10	13 55
903 N	14	22	10	E 142.31	B	13 59	14 58	13 59	14 56	13 59	14 58		
904 D	15	15	52	W051.11	B/A	14 58	15 46			14 58	15 46	15 03	15 38
904 N	16	09	24	E 115.50	A	15 46	16 45	15 46	16 43	15 46	16 45		
905 D	17	03	06	W077.92	A/B	16 45	17 21			16 45	17 34	16 44	17 19
905 N	17	56	38	E 088.68	B	18 22	18 32	17 34	18 30	17 34	18 32		
906 D	18	50	20	W104.74	A	18 32	19 21			18 32	19 21	18 31 19 09	18 59 19 20
906 N	19	43	52	E 061.90	A	19 21	20 19	19 21	20 17	19 21	20 20		
907 D	20	37	34	W131.55	A/B	20 19	21 08			20 20	21 08	20 22	20 50
907 N	21	31	07	E 035.08	B	21 08	22 07	21 08	22 05	21 08	22 07		
908 D	22	24	48	W158.34	B/A	22 07	22 55			22 07	22 55	22 06	22 37
908 N	23	18	21	E 008.26	A	22 55	23 54	22 55	23 52	22 55	23 54		

TABLE 2-2
SENSOR ON – OFF TIMES
DATE 15 JUNE 1970

DATA ORBIT	ASCEND/DESCEND NODE				HDRSS	IRIS		THIR HUMIDITY		THIR TEMP		IDCS	
	TIME			LONG		ON	OFF	ON	OFF	ON	OFF	ON	OFF
	HR	MIN	SEC	DEG		HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN
909 D	00	12	02	E 174.85	A	23 54	00 42			23 54	00 43	23 53	00 42
909 N	01	05	35	W018.56	B	00 42	01 41	00 42	01 39	00 43	01 41		
910 D	01	59	17	E 148.03	B	01 41	02 00			01 41	01 57	01 40	01 50
910 N	02	52	49	W045.36									
911 D	03	46	31	E 121.22									
911 N	04	40	03	W072.15	B	04 33	05 16	04 34	05 14	04 34	05 16		
912 D	05	33	45	E 094.43	B	05 16	06 04			05 16	06 04	05 18	06 00
912 N	06	27	17	W098.96	B	06 04 06 17	06 09 07 03	06 17	07 01	06 04 06 17	06 11 07 03		
913 D	07	20	59	E 067.62	B	07 03	07 50	07 21	07 52	07 03	07 50	07 02	07 19
913 N	08	14	31	W125.78	A	07 52	08 50	07 52	08 48	07 53	08 50		
914 D	09	08	13	E 040.80	A	08 50	09 39			08 50	09 37	08 49	09 38
914 N	10	01	46	W152.60	B	09 39	10 37	09 39	10 36	09 40	10 37		
915 D	10	55	27	E 013.99	B	10 37	11 26			10 37	11 24	10 37	11 21
915 N	11	49	00	W179.38	A	11 26	12 25	11 26	12 23	11 26	12 25		
916 D	12	42	41	W012.84	A	12 25	13 13			12 25	13 10	12 24	13 09
916 N	13	36	14	E 153.81	B	13 13	14 12	13 13	14 10	13 13	14 12		
917 D	14	29	56	W039.61	A	14 12	14 54			14 12	14 53	14 14	14 52
917 N	15	23	28	E 126.98	A	14 59	15 59	15 00	15 57	15 00	15 59		
918 D	16	17	10	W066.44	A/B	15 59	16 48			15 59	16 48	15 58	16 36
918 N	17	10	42	E 100.17	B	16 48	17 46	16 47	17 44	16 48	17 46		
919 D	18	04	24	W093.25	B	17 46	18 35			17 46	18 35	17 45	18 20
919 N	18	57	56	E 073.35	B	18 35	19 33	18 35	19 32	18 35	19 33		
920 D	19	51	38	W120.07	B/A	19 33	20 05			19 33	20 22	19 33	20 07
920 N	20	45	10	E 046.57	A	20 21	21 21	20 22	21 20	20 22	21 21		
921 D	21	38	52	W146.85	A	21 21	22 09			21 21	22 09	21 20	21 51
921 N	22	32	25	E 019.75	A	22 09	23 08	22 09	23 06	22 09	23 08		
922 D	23	26	06	W173.67	A	23 08	23 57			23 08	23 57	23 10	23 38
922 N	00	19	39	W007.06	A	23 57	00 55	23 56	00 53	23 57	00 55		

TABLE 2-2
SENSOR ON – OFF TIMES
DATE 16 JUNE 1970

DATA ORBIT	ASCEND/DESCEND NODE				HDRSS	IRIS		THIR HUMIDITY		THIR TEMP		IDCS	
	TIME			LONG		ON	OFF	ON	OFF	ON	OFF	ON	OFF
	HR	MIN	SEC	DEG		HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN
923 D	01	13	21	E 159.52	A	00 55	01 44			00 55	01 44	00 54	01 43
923 N	02	06	53	W033.89	B	01 44	02 42	01 43	02 39	01 44	02 43		
924 D	03	00	35	E 132.70	B	02 42	03 31			02 43	03 31	02 45	03 30
924 N	03	54	07	W060.66	B	03 31	03 42	03 31	03 43	03 31	03 43		
925 D	04	47	49	E 105.88									
925 N	05	41	21	W087.48	B	05 31	06 17	05 31	06 15	05 31	06 17		
926 D	06	35	03	E 079.10	B	06 17	07 05			06 17	07 05	06 16	07 04
926 N	07	28	35	W114.30	A	07 05	08 04	07 13	08 02	07 05	08 04		
927 D	08	22	17	E 052.29	A	08 04	08 53	08 19	08 52	08 04	08 52	08 07	08 17
927 N	09	15	49	W141.11	B	08 53	09 51	08 53	09 50	08 53	09 51		
928 D	10	09	31	E 025.46	A	09 51	10 40			09 51	10 38	09 51	10 36
928 N	11	03	04	W167.90	A	10 40	11 39	10 40	11 36	10 40	11 39		
929 D	11	56	46	W001.35	A	11 39	12 27			11 39	12 24	11 38	12 23
929 N	12	50	18	E 165.29	B	12 27	13 26	12 27	13 24	12 27	13 26		
930 D	13	44	00	W028.14	B	13 26	14 09			13 26	14 08	13 25	14 10
930 N	14	37	32	E 138.47	A	15 01	15 13	14 14	15 11	14 14	15 13		
931 D	15	31	14	W054.95	A	15 13	16 02			15 14	15 51	15 12	15 50
931 N	16	24	46	E 111.65	B	16 02	17 00	16 01	16 52	16 02	17 00		
932 D	17	18	28	W081.77	B/A	17 00	17 49			17 00	17 49	17 03	17 34
932 N	18	12	00	E 084.83	A	17 49	18 48	17 49	18 45	17 49	18 48		
933 D	19	05	42	W108.58	B	18 48	19 36			18 48	19 36	18 50	19 18
933 N	19	59	14	E 058.06	B	19 36	20 35	19 36	20 33	19 36	20 35		
934 D	20	52	56	W135.41	B	20 35	21 23			20 35	21 23	20 34	21 05
934 N	21	46	29	E 031.23	A	21 23	22 22	21 23	22 20	21 23	22 22		
935 D	22	40	10	W162.18	A/B	22 22	23 11			22 22	23 11	22 21	22 56
935 N	23	33	43	E 004.42	B	23 11	00 09	23 11	00 07	23 11	00 09		

TABLE 2-2
SENSOR ON – OFF TIMES
DATE 17 JUNE 1970

DATA ORBIT	ASCEND/DESCEND NODE				HDRSS	IRIS				THIR HUMIDITY				THIR TEMP				IDCS			
	TIME			LONG		ON		OFF		ON		OFF		ON		OFF		ON		OFF	
	HR	MIN	SEC	DEG		HR	MIN	HR	MIN	HR	MIN	HR	MIN	HR	MIN	HR	MIN	HR	MIN	HR	MIN
936 D	00	27	25	E 170.99	B	00	09	00	58					00	09	00	58	00	11	00	57
936 N	01	20	57	W022.40	A	00	58	01	57	00	58	01	54	00	58	01	57				
937 D	02	14	39	E 144.18	A	01	57	02	45					01	57	02	45	01	59	02	44
937 N	03	08	11	W049.18	A	02	45	02	58	02	45	02	56	02	45	02	57				
938 D	04	01	53	E 117.36																	
938 N	04	55	25	W076.00	A	04	51	05	31	04	51	05	29	04	51	05	31				
939 D	05	49	07	E 090.58	A	05	31	06	20					05	31	06	20	05	30	06	19
939 N	06	42	39	W102.81	B/A	06	20	07	18	06	36	07	16	06 06	20 37	06 07	26 18				
940 D	07	36	21	E 063.76	B	07	18	08	06	07	33	08	06	07	18	08	06	07	17	07	31
940 N	08	29	53	W129.64	B	08	13	09	05	08	13	09	03	08	13	09	05				
941 D	09	23	35	E 036.95	B	09	05	09	53					09	05	09	54	09	05	09	50
941 N	10	17	08	W156.45	A	09	55	10	53	09	55	10	51	09	56	10	53				
942 D	11	10	50	E 010.12	A	10	53	11	41					10	53	11	38	10	52	11	37
942 N	12	04	22	E 176.76	B	11	41	12	40	11	41	12	38	11	41	12	40				
943 D	12	58	04	W016.65	B	12	40	13	29					12	40	13	24	12	39	13	24
943 N	13	51	36	E 149.95	A	13	29	14	27	13	29	14	25	13	29	14	27				
944D	14	45	18	W043.48	A	14	27	15	16					14	27	15	12	14	26	15	11
944 N	15	38	50	E 123.13	B	15	16	16	14	15	16	16	12	15	16	16	14				
945 D	16	32	32	W070.29	B/A	16	14	17	03					16 16	14 54	16 17	49 03	16 16	14 55	16 17	48 02
945 N	17	26	04	E 096.32	A	17	03	18	02	17	03	17	59	17	03	18	02				
946 D	18	19	46	W097.11	B	18	02	18	50					18	02	18	50	18	01	18	46
946 N	19	13	18	E 069.53	B	18	50	19	49	18	50	19	45	18	50	19	49				
947 D	20	07	00	W123.92	B/A	19	49	20	37					19	49	20	37	19 20	51 26	20 20	19 33
947 N	21	00	32	E 042.72	A	20	37	21	36	20	37	21	34	20	37	21	36				
948 D	21	54	14	W150.71	A/B	21	36	22	25					21	36	22	25	21	35	22	23
948 N	22	47	47	E 015.89	B	22	25	23	23	22	25	23	22	22	25	23	23				
949 D	23	41	29	W177.52	B/A	23	23	00	12					23	23	00	12	23	26	23	57
949 N	00	35	01	W010.92	A	00	12	01	11	00	12	01	08	00	12	01	11				

TABLE 2-2
SENSOR ON – OFF TIMES
DATE 18 JUNE 1970

DATA ORBIT	ASCEND/DESCEND NODE				HDRSS	IRIS		THIR HUMIDITY		THIR TEMP		IDCS	
	TIME			LONG		ON	OFF	ON	OFF	ON	OFF	ON	OFF
	HR	MIN	SEC	DEG		HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN
950 D	01	28	43	E 155.65	A	01 11	01 59			01 11	01 55		
950 N	02	22	15	W037.71	B	01 59	02 58	01 59	02 56	01 59	02 58		
951 D	03	15	57	E 128.84	B	02 58	03 46			02 58	03 46	02 57	03 42
951 N	04	09	29	W064.52	B	03 46	03 53	03 46	04 01	03 46	03 57		
952 D	05	03	11	E 102.06									
952 N	05	56	43	W091.34	B	05 45	06 32	05 45	06 30				
953 D	06	50	25	E 075.24	B	06 32	07 21					06 32	06 42
953 N	07	43	57	W118.15	A	07 21	08 20	07 28	08 17	07 28	08 20		
954 D	08	37	39	E 048.42	A	08 20	09 06	08 35	09 08	08 20	09 08	08 19	08 32
954 N	09	31	11	W144.98	B	09 09	10 07	09 09	10 05	09 08	10 07		
955 D	10	24	54	E 021.61	B	10 07	10 55			10 07	10 52	10 06	10 51
955 N	11	18	26	W171.75	A	10 55	11 54	10 55	11 52	10 55	11 54		
956 D	12	12	08	W005.21	A	11 54	12 43			11 54	12 38	11 53	12 38
956 N	13	05	40	E 161.42	B	12 43	13 41	12 42	13 39	12 43	13 41		
957 D	13	59	22	W031.99	B	13 41	14 25			13 41	14 24	13 44	14 25
957 N	14	52	54	E 134.61	B	14 31	15 28	14 31	15 27	14 31	15 28		
958 D	15	46	36	W058.81	B/A	15 28	16 08			15 28	16 17	15 28	16 06
958 N	16	40	08	E 107.79	A	16 35	17 16			16 17	17 16		
959 D	17	33	50	W085.63	A/B	17 16	18 04			17 16	18 04		
959 N	18	27	22	E 081.01	B	18 04	19 03	18 04	19 01	18 04	19 03		
960 D	19	21	04	W112.45	B/A	19 03	19 52			19 03	19 52	19 05	19 50
960 N	20	14	36	E 054.19	A	19 52	20 50	19 51	20 49	19 52	20 50		
961 D	21	08	18	W139.22	A/B	20 50	21 39			20 50	21 39	20 52	21 37
961 N	22	01	50	E 027.38	B	21 39	22 37	21 38	22 37	21 39	22 37		
962 D	22	55	33	W166.05	B	22 37 23 17	23 11 23 26			22 37	23 10	22 40	23 11
962 N	23	49	05	E 000.55	A	23 26	00 25	23 26	00 25	23 26	00 25		

TABLE 2-2
SENSOR ON – OFF TIMES
DATE 19 JUNE 1970

DATA ORBIT	ASCEND/DESCEND NODE				HDRSS	IRIS				THIR HUMIDITY				THIR TEMP				IDCS			
	TIME			LONG		ON		OFF		ON		OFF		ON		OFF		ON		OFF	
	HR	MIN	SEC	DEG		HR	MIN	HR	MIN	HR	MIN	HR	MIN	HR	MIN	HR	MIN	HR	MIN	HR	MIN
963 D	00	42	47	E 167.14	A	00	25	01	13					00	25	01	13	00	27	01	08
963 N	01	36	19	W026.22	B	01	13	02	12	01	13	02	12	01	13	02	12				
964 D	02	30	01	E 140.32	B	02	12	03	00					02	12	03	00	02	14	02	56
964 N	03	23	33	W053.05	B	03	00	03	13	03	00	03	13	03	00	03	12				
965 D	04	17	15	E 113.51																	
965 N	05	10	47	W079.86	B	05	04	05	46	05	04	05	45	05	04	05	46				
966 D	06	04	29	E 086.72	B	05	46	06	35					05	46	06	35	05	49	06	30
966 N	06	58	01	W106.68	A/B	06	35	07	34					06	35	07	34				
967 D	07	51	43	E 059.91	A	07	34	08	20					07	34	08	21				
967 N	08	45	15	W133.49	B	08	22	09	21	08	22	09	17	08	22	09	21				
968 D	09	38	58	E 033.08	B	09	21	10	07					09	21	10	08	09	23	10	01
968 N	10	32	29	W160.28	A	10	09	11	08	10	09	11	06	10	09	11	08				
969 D	11	26	12	E 006.27	A	11	08	11	57					11	08	11	52	11	07	11	52
969 N	12	19	44	E 172.91	B	11	57	12	55	11	56	12	54	11	57	12	55				
970 D	13	13	26	W020.52	B	12	55	13	44					12	55	13	39	12	57	13	39
970 N	14	06	58	E 146.08	A	13	44	14	43	13	43	14	41	13	44	14	43				
971 D	15	00	40	W047.33	A/B	14	43	15	31					14	43	15	31	14	45	15	20
971 N	15	54	12	E 119.27	B	15	31	16	30	15	31	16	29	15	31	16	30				
972 D	16	47	54	W074.14	B/A	16	30	17	18					16	30	17	18	16	32	17	07
972 N	17	41	26	E 092.48	A	17	18	18	17	17	18	18	15	17	18	18	17				
973 D	18	35	08	W100.96	A/B	18	17	19	06					18	17	19	06	18	19	18	51
973 N	19	28	40	E 065.67	B	19	06	20	04	19	05	20	03	19	06	20	04				
974 D	20	22	22	W127.74	B/A	20	04	20	53					20	04	20	53	20	07	20	35
974 N	21	15	54	E 038.85	A	20	53	21	51	20	52	21	50	20	53	21	51				
975 D	22	09	37	W154.56	A/B	21	51	22	40					21	51	22	40	21	54	22	22
975 N	23	03	08	E 012.04	B	22	40	23	39	22	40	23	37	22	40	23	39				
976 D	23	56	51	E 178.63	B	23	39	00	24					23	39	00	27	23	41	00	23
976 N	00	50	23	W014.79	A	00	28	01	26	00	27	01	21	00	27	01	26				

TABLE 2-2
SENSOR ON – OFF TIMES
DATE 20 JUNE 1970

DATA ORBIT	ASCEND/DESCEND NODE				HDRSS	IRIS		THIR HUMIDITY		THIR TEMP		IDCS	
	TIME			LONG		ON	OFF	ON	OFF	ON	OFF	ON	OFF
	HR	MIN	SEC	DEG		HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN
977 D	01	44	05	E 151.80	A	01 26	02 15			01 26	02 13	01 28	02 10
977 N	02	37	37	W041.56	A	02 15	02 25						
978 D	03	31	19	E 124.99									
978 N	04	24	51	W068.39	A	04 18	05 00	04 18	04 59	04 18	05 00		
979 D	05	18	33	E 098.20	A	05 00	05 49			05 00	05 49	05 03	05 44
979 N	06	12	05	W095.20	A	05 49	05 54	06 01	06 46	05 49	05 54		
979 N	06	12	05	W095.20	A	06 00	06 48			06 01	06 48		
980 D	07	05	47	E 071.39	A	06 48	07 36	07 03	07 36	06 48	07 36	06 50	07 00
980 N	07	59	19	W122.02	B	07 36	08 35	07 43	08 34	07 43	08 35		
981 D	08	53	02	E 044.57	B	08 35	09 23	08 50	09 21	08 35	09 21	08 37	08 48
981 N	09	46	33	W148.80	A	09 23	10 22	09 23	10 19	09 23	10 22		
982 D	10	40	16	E 017.76	A	10 22	11 11			10 22	11 08	10 24	11 03
982 N	11	33	47	W175.61	B	11 11	12 09	11 10	12 08	11 11	12 09		
983 D	12	27	30	W009.03	B	12 09	12 54			12 09	12 54	12 12	12 53
983 N	13	21	02	E 157.57	A	13 01	13 57	12 57	13 56	12 58	13 57		
984 D	14	14	44	W035.84	A	13 57	14 45			13 57	14 40	13 59	14 10
984 N	15	08	16	E 130.76	B	14 45	15 44	14 45	15 43	14 45	15 44		
985 D	16	01	58	W062.67	B/A	15 44	16 32			15 44	16 32	15 46	16 21
985 N	16	55	30	E 103.97	A	16 32	17 31	16 32	17 29	16 32	17 31		
986 D	17	49	12	W089.48	A/B	17 31	18 20			17 31	18 20	17 33	18 18
986 N	18	42	44	E 077.16	B	18 20	19 18	18 19	19 17	18 20	19 18		
987 D	19	36	26	W116.30	B/A	19 18	20 07			19 18	20 07	19 21	20 06
987 N	20	29	58	E 050.33	A	20 07	21 06	20 05	21 02	20 07	21 06		
988 D	21	23	41	W143.08	A/B	21 06	21 54			21 06	21 54	21 08 21 42	21 36 21 53
988 N	22	17	12	E 023.52	B	21 54	22 53	21 54	22 51	21 54	22 53		
989 D	23	10	55	W169.90	B	22 53	23 41			22 53	23 26	22 55	23 26
989 N	00	04	26	W003.30	A	23 41	00 40	23 41	00 39				

TABLE 2-2
SENSOR ON – OFF TIMES
DATE 21 JUNE 1970

DATA ORBIT	ASCEND/DESCEND NODE				HDRSS	IRIS		THIR HUMIDITY		THIR TEMP		IDCS	
	TIME			LONG		ON	OFF	ON	OFF	ON	OFF	ON	OFF
	HR	MIN	SEC	DEG		HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN
990 D	00	58	09	E 163.29	A	00 40	01 29						
990 N	01	51	41	W030.08	B	01 29	02 27	01 28	02 27				
991 D	02	45	23	E 136.46	B	02 27	03 16						
991 N	03	38	55	W056.90	B	03 16	03 28	03 15	03 28				
992 D	04	32	37	E 109.69									
992 N	05	26	09	W083.71	B	05 11	06 02	05 17	06 00	05 16	06 02		
993 D	06	19	51	E 082.87	B	06 02	06 50			06 02	06 50		
993 N	07	13	23	W110.54	A	06 50	07 49	06 57	07 48	06 57	07 49		
994 D	08	07	05	E 056.05	A	07 49	08 38	08 04	08 36	07 49	08 36	07 51	08 02
994 N	09	00	37	W137.31	B	08 38	09 36	08 38	09 36	08 38	09 36		
995 D	09	54	20	E 029.23	B	09 36	10 25			09 36	10 22	09 38	10 20
995 N	10	47	51	W164.14	A	10 25	11 23	10 24	11 22	10 25	11 23		
996 D	11	41	34	E 002.42	A	11 23	12 12			11 23	12 09	11 26	12 07
996 N	12	35	05	E 169.05	B	12 12	13 11	12 12	13 09	12 12	13 11		
997 D	13	28	48	W024.37	B	13 11	13 59			13 11	13 55	13 13	13 55
997 N	14	22	20	E 142.23	A	13 59	14 58	13 59	14 56	13 59	14 58		
998 D	15	16	02	W051.18	A/B	14 58	15 46			14 58	15 46	15 00	15 35
998 N	16	09	34	E 115.45	B	15 46	16 45	15 46	16 44	15 46	16 45		
999 D	17	03	16	W078.00	B/A	16 45	17 34			16 45	17 34	16 47	17 22
999 N	17	56	48	E 088.63	A	17 34	18 32	17 33	18 29	17 34	18 32		
1000 D	18	50	30	W104.82	A/B	18 32	19 21			18 32	19 20	18 35 19 09	19 02 19 20
1000 N	19	44	02	E 061.82	B	19 21	20 20	19 20	20 18	19 20	20 20		
1001 D	20	37	45	W131.60	B/A	20 20	21 08			20 20	21 08	20 22	21 07
1001 N	21	31	16	E 034.99	A	21 08	22 07	21 08	22 05	21 08	22 07		
1002 D	22	24	59	W158.41	A/B	22 07	22 55			22 07	22 55	22 09	22 37
1002 N	23	18	30	E 008.18	B	22 55	23 54	22 55	23 53	22 55	23 54		

TABLE 2-2
SENSOR ON – OFF TIMES
DATE 22 JUNE 1970

DATA ORBIT	ASCEND/DESCEND NODE				HDRSS	IRIS		THIR HUMIDITY		THIR TEMP		IDCS	
	TIME			LONG		ON	OFF	ON	OFF	ON	OFF	ON	OFF
	HR	MIN	SEC	DEG		HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN
1003 D	00	12	13	E 174.76	B	23 54	00 43			23 54	00 43		
1003 N	01	05	44	W018.61	A	00 43	01 41	00 42	01 40				
1004 D	01	59	27	E 147.95	A	01 41	02 30						
1004 N	02	52	59	W045.42	A	02 30	02 41	02 29	02 41				
1005 D	03	46	41	E 121.16									
1005 N	04	40	13	W072.24	A	04 32	05 16	04 32	05 15	04 32	05 16		
1006 D	05	33	55	E 094.35	A	05 16	06 04			05 16	06 04		
1006 N	06	27	27	W099.05	B/A	06 04	06 11	06 12	07 02	06 04	07 03		
1007 D	07	21	09	E 067.53	B	07 31	07 52	07 18	07 51	07 03	07 51	07 05	07 16
1007 N	08	14	41	W125.84	A	07 52	08 50	07 52	08 49	07 52	08 50		
1008 D	09	08	24	E 040.72	A	08 50	09 37	09 05	09 37	08 50	09 37	08 53	09 03
1008 N	10	01	55	W152.65	B	10 01	10 37	09 39	10 35	09 39	10 37		
1009 D	10	55	38	E 013.89	B	10 37	11 26			10 37	11 23	10 43	11 21
1009 N	11	49	09	W179.48	A	11 26	12 25	11 26	12 24	11 26	12 25		
1010 D	12	42	52	W012.88	B	12 25	13 13			12 25	13 08	12 27	13 09
1010 N	13	36	23	E 153.71	B	13 13	14 12	13 13	14 10	13 13	14 12		
1011 D	14	30	06	W039.71	B	14 12	14 54			14 12	14 58	14 14	14 53
1011 N	15	23	38	E 126.89	B			15 03	15 59	15 03	15 59		
1012 D	16	17	20	W066.52	B	16 11	16 48			15 59	16 40	16 02	16 40
1012 N	17	10	52	E 100.11	A	16 48	17 46	16 47	17 45	16 48	17 46		
1013 D	18	04	34	W093.34	A	17 46	18 35			17 46	18 22	17 49	18 20
1013 N	18	58	06	E 073.29	B	18 35	19 34	18 35	19 32	18 35	19 34		
1014 D	19	51	49	W120.12	B/A	19 34	20 22			19 34	20 22	19 36	20 04
1014 N	20	45	20	E 046.48	A	20 22	21 21	20 22	21 20	20 22	21 21		
1015 D	21	39	03	W146.94	A/B	21 21	22 09			21 21	22 09	21 23 21 58	21 51 22 08
1015 N	22	32	34	E 019.65	B	22 09	23 08	22 09	23 07	22 09	23 08		
1016 D	23	26	17	W173.75	B	23 08	23 57			23 08	23 43	23 10	23 39
1016 N	00	19	48	W007.12	A	23 57	00 55	23 56	00 53				

TABLE 2-2
SENSOR ON – OFF TIMES
DATE 23 JUNE 1970

DATA ORBIT	ASCEND/DESCEND NODE				HDRSS	IRIS		THIR HUMIDITY		THIR TEMP		IDCS	
	TIME			LONG		ON	OFF	ON	OFF	ON	OFF	ON	OFF
	HR	MIN	SEC	DEG		HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN
1017 D	01	13	31	E 159.42	A	00 55	01 44						
1017 N	02	07	02	W033.95	B	01 44	02 43	01 43	02 40				
1018 D	03	00	45	E 132.61	B	02 43	03 31						
1018 N	03	54	17	W060.76	B	03 31	03 44						
1019 D	04	47	59	E 105.82									
1019 N	05	41	31	W087.58	B	05 30	06 17	05 31	06 16				
1020 D	06	35	13	E 079.01	B	06 17	07 06						
1020 N	07	28	45	W114.36	A	07 06	08 04	07 12	08 03	07 13	08 04		
1021 D	08	22	28	E 052.19	A	08 04	08 52	08 19	08 51	08 04	08 49	08 07	08 17
1021 N	09	15	59	W141.18	B	08 53	09 52	08 53	09 49	08 53	09 52		
1022 D	10	09	42	E 025.38	B	09 52	10 40			09 52	10 39	09 54	10 35
1022 N	11	03	13	W167.99	A	10 40	11 39	10 40	11 37	10 40	11 39		
1023 D	11	56	56	W001.41	A	11 39	12 27			11 39	12 23	11 41	12 23
1023 N	12	50	27	E 165.18	B	12 27	13 26	12 27	13 25	12 27	13 26		
1024 D	13	44	10	W028.22	B	13 26	14 15			13 26	14 09	13 28	14 10
1024 N	14	37	41	E 138.37	A	14 15	15 13	14 14	15 12	14 15	15 13		
1025 D	15	31	24	W055.05	A	15 13	16 02			15 13	15 57	15 16	15 45
1025 N	16	24	56	E 111.59	B	16 02	17 00	16 01	16 57	16 02	17 00		
1026 D	17	18	38	W081.86	B	17 00	17 38			17 00	17 49	17 03	17 38
1026 N	18	12	10	E 084.77	B	18 11	18 48	17 49	18 46	17 49	18 48		
1027 D	19	05	52	W108.64	B	18 48	19 36			18 48	19 23	18 50	19 35
1027 N	19	59	24	E 057.95	B	19 36	20 35	19 36	20 33	19 36	20 35		
1028 D	20	53	07	W135.46	B	20 35	21 24			20 35	21 24	20 37 21 12	21 05 21 23
1028 N	21	46	38	E 031.14	B	21 24	22 22	21 23	22 20	21 24	22 22		
1029 D	22	40	21	W162.28	B	22 22	23 11			22 22	23 11	22 25	22 52
1029 N	23	33	52	E 004.35	B	23 11	00 09	23 10	00 08	23 11	00 09		

TABLE 2-2
SENSOR ON – OFF TIMES
DATE 24 JUNE 1970

DATA ORBIT	ASCEND/DESCEND NODE				HDRSS	IRIS		THIR HUMIDITY		THIR TEMP		IDCS	
	TIME			LONG		ON	OFF	ON	OFF	ON	OFF	ON	OFF
	HR	MIN	SEC	DEG		HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN
1030 D	00	27	35	E 170.91	B	00 09	00 58			00 09	00 58		
1030 N	01	21	06	W022.46	A	00 58	01 57			00 58	01 57		
1031 D	02	14	49	E 144.08	A	01 57	02 45			01 57	02 45		
1031 N	03	08	20	W049.28	A	02 45	02 57	02 45	02 51	02 47	02 57		
1032 D	04	02	03	E 117.31									
1032 N	04	55	35	W076.10	A	04 46	05 31	04 47	05 25	04 47	05 31		
1033 D	05	49	17	E 090.49	A	05 31	06 20			05 31	06 20		
1033 N	06	42	49	W102.88	B	06 20	07 18	06 27	07 17	06 20	07 18		
1034 D	07	36	32	E 063.67	B	07 18	08 07	07 34	08 06	07 18	08 06	07 21	07 31
1034 N	08	30	03	W129.70	A	08 07	09 06	08 08	09 05	08 08	09 06		
1035 D	09	23	46	E 036.85	A	09 06	09 52			09 06	09 51	09 08	09 46
1035 N	10	17	17	W156.51	B			09 54	10 52	09 54	10 53		
1036 D	11	11	00	E 010.08	B	11 21	11 41			10 53	11 38	10 55	11 30
1036 N	12	04	31	E 176.67	A	11 41	12 40	11 41	12 40	11 41	12 40		
1037 D	12	58	14	W016.75	A	12 40	13 25			12 40	13 24	12 42	13 24
1037 N	13	51	45	E 149.86	B			13 28	14 26	13 29	14 27		
1038 D	14	45	28	W043.56	B	14 51	15 16			14 27	15 09	14 30	15 08
1038 N	15	38	59	E 123.07	B	15 16	16 15	15 16	16 12	15 16	16 15		
1039 D	16	32	42	W070.38	B/A	16 15	16 53			16 15	17 03	16 17	16 52
1039 N	17	26	14	E 096.26	A			17 02	17 59	17 03	18 02		
1040 D	18	19	56	W097.20	A/B	18 21	18 36			18 02	18 50	18 04 18 39	18 32 18 49
1040 N	19	13	28	E 069.43	B	19 01	19 49	18 50	19 48	18 50	19 49		
1041 D	20	07	11	W123.98	B/A	19 49	20 22			19 49	20 38	19 51	20 19
1041 N	21	00	42	E 042.62	A	21 01	21 36	20 37	21 35	20 38	21 36		
1042 D	21	54	25	W150.79	A/B	21 36	22 25			21 36	22 25	21 39	22 10
1042 N	22	47	56	E 015.84	B	22 25	23 23	22 24	23 22	22 25	23 23		
1043 D	23	41	39	W177.62	B	23 23	00 12			23 23	00 12		
1043 N	00	35	10	W010.98	B	00 12	01 11	00 11	01 09				

TABLE 2-2
SENSOR ON – OFF TIMES
DATE 25 JUNE 1970

DATA ORBIT	ASCEND/DESCEND NODE				HDRSS	IRIS		THIR HUMIDITY		THIR TEMP		IDCS	
	TIME			LONG		ON	OFF	ON	OFF	ON	OFF	ON	OFF
	HR	MIN	SEC	DEG		HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN
1044 D	01	28	53	E 155.57	A	01 11	01 59						
1044 N	02	22	24	W037.80	A	01 59	02 12						
1045 D	03	16	07	E 128.78									
1045 N	04	09	38	W064.61									
1046 D	05	03	21	E 101.97									
1046 N	05	56	52	W091.40	A	05 47	06 32	05 48	06 32				
1047 D	06	50	36	E 075.15	A	06 32	07 21						
1047 N	07	44	07	W118.21	B	07 21	08 20	07 28	08 18	07 28	08 20		
1048 D	08	37	50	E 048.34	B	08 20	09 05	08 35	09 06	08 20	09 06	08 22	08 32
1048 N	09	31	21	W145.03	A			09 08	10 06	09 08	10 07		
1049 D	10	25	04	E 021.52	A	10 42	10 53			10 07	10 54	10 09	10 51
1049 N	11	18	35	W171.85	B			10 55	11 53	10 55	11 54		
1050 D	12	12	18	W005.26	B	12 36	12 43			11 54	12 40	11 56	12 38
1050 N	13	05	49	E 161.33	A	12 43	13 41	12 42	13 38	12 43	13 41		
1051 D	13	59	32	W032.07	A	13 41	14 30			13 41	14 25	13 43	14 25
1051 N	14	53	03	E 134.55	B	14 30	15 29	14 29	15 28	14 30	15 29		
1052 D	15	46	46	W058.90	B/A	15 29	16 17			15 29	16 17	15 31	16 16
1052 N	16	40	17	E 107.73	A	16 17	17 16	16 17	17 14	16 17	17 16		
1053 D	17	34	00	W085.71	A/B	17 16	18 04			17 16	18 04	17 19	18 00
1053 N	18	27	31	E 080.92	B	18 04	19 03	18 04	19 00	18 04	19 03		
1054 D	19	21	15	W112.50	B/A	19 03	19 52			19 03	19 52	19 05 19 40	19 33 19 51
1054 N	20	14	46	E 054.09	A	19 52	20 50	19 51	20 49	19 52	20 50		
1055 D	21	08	29	W139.31	A/B	20 50	21 39			20 50	21 39	20 53	21 38
1055 N	22	02	00	E 027.32	B	21 39	22 38	21 38	22 36	21 39	22 38		
1056 D	22	55	43	W166.13	B/A	22 38	23 26			22 38	23 26	22 40	23 11
1056 N	23	49	14	E 000.50	A	23 26	00 25	23 25	00 23	23 26	00 25		

TABLE 2-2
SENSOR ON – OFF TIMES
DATE 26 JUNE 1970

DATA ORBIT	ASCEND/DESCEND NODE				HDRSS	IRIS		THIR HUMIDITY		THIR TEMP		IDCS	
	TIME			LONG		ON	OFF	ON	OFF	ON	OFF	ON	OFF
	HR	MIN	SEC	DEG		HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN
1057 D	00	42	57	E 167.06	A	00 25	01 13			00 25	01 13	00 27	01 09
1057 N	01	36	28	W026.32	B	01 13	02 12	01 13	02 10				
1058 D	02	30	11	E 140.27	B	02 12	03 01						
1058 N	03	23	42	W053.14	B	03 01	03 14	03 03	03 12				
1059 D	04	17	25	E 113.46									
1059 N	05	10	56	W079.95	B	05 03	05 46	05 03	05 46	05 04	05 46		
1060 D	06	04	39	E 086.63	B	05 46	06 35			05 46	06 35	05 49	06 31
1060 N	06	58	10	W106.74	A/B	06 35	07 34	06 34	07 32	06 35	07 34		
1061 D	07	51	54	E 059.82	A	07 34	08 21	07 49	08 22	07 34	08 22	07 36	07 47
1061 N	08	45	25	W133.55	B	08 23	09 21	08 23	09 20	08 23	09 21		
1062 D	09	39	08	E 033.00	B	09 21	10 10	09 36	10 06	09 21	10 06	09 27	09 34
1062 N	10	32	39	W160.37	A	10 10	11 08	10 09	11 07	10 10	11 08		
1063 D	11	26	22	E 006.22	B	11 08	11 57			11 08	11 54	11 11	11 52
1063 N	12	19	53	E 172.81	B	11 57	12 55	11 56	12 54	11 57	12 55		
1064 D	13	13	36	W020.60	B	12 55	13 44			12 55	13 38	12 58	13 39
1064 N	14	07	07	E 146.03	A	13 44	14 43	13 43	14 41	13 44	14 43		
1065 D	15	00	50	W047.41	A	14 43	15 31			14 43	15 31	14 45	15 23
1065 N	15	54	21	E 119.21	B	15 31	16 30	15 31	16 29	15 31	16 30		
1066 D	16	48	04	W074.24	B	16 30	17 18			16 30	17 08	16 32	17 06
1066 D	16	48	04	W074.24	A					17 10	17 16	17 11	17 17
1066 N	17	41	35	E 092.39	A	17 18	18 17	17 18	18 16	17 18	18 17		
1067 D	18	35	19	W101.01	A/B	18 17	19 06			18 17	19 06	18 20	19 04
1067 N	19	28	49	E 065.58	B	19 06	20 04	19 05	20 03	19 06	20 04		
1068 D	20	22	33	W127.84	B	20 04	20 53			20 04	20 38	20 07	20 38
1068 D	20	22	33	W127.84	A					20 43	20 53	20 41	20 48
1068 N	21	16	04	E 038.79	A	20 53	21 52	20 52	21 50	20 53	21 52		
1069 D	22	09	47	W154.65	A/B	21 52	22 40			21 52	22 40	21 54	22 22
1069 N	23	03	18	E 011.98	B	22 40	23 39	22 40	23 37	22 40	23 39		
1070 D	23	57	01	E 178.53	B	23 39	00 27			23 39	00 27		
1070 N	00	50	32	W014.84	A	00 27	01 26	00 27	01 25	00 27	01 26		

TABLE 2-2
SENSOR ON – OFF TIMES
DATE 27 JUNE 1970

DATA ORBIT	ASCEND/DESCEND NODE				HDRSS	IRIS		THIR HUMIDITY		THIR TEMP		IDCS	
	TIME			LONG		ON	OFF	ON	OFF	ON	OFF	ON	OFF
	HR	MIN	SEC	DEG		HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN
1071 D	01	44	15	E 151.72	A	01 26	02 15			01 26	02 15		
1071 N	02	37	46	W041.66	A	02 15	02 26						
1072 D	03	31	29	E 124.93									
1072 N	04	25	00	W068.48	A			04 18	04 58				
1073 D	05	18	43	E 098.12									
1073 N	06	12	14	W095.25	A	06 45	06 48	06 00	06 45	06 00	06 48		
1074 D	07	05	58	E 071.29	A	06 48	07 36	07 03	07 36	06 48	07 36		
1074 N	07	59	28	W122.08	B	07 36	08 35	07 43	08 33	07 43	08 35		
1075 D	08	53	12	E 044.48	B	08 35	09 24	08 50	09 21	08 35	09 21	08 37	08 48
1075 N	09	46	43	W148.89	A	09 24	10 22	09 23	10 20	09 23	10 22		
1076 D	10	40	26	E 017.69	A	10 22	11 11			10 22	11 09	10 25	11 06
1076 N	11	33	57	W175.71	B	11 11	12 09	11 10	12 08	11 11	12 09		
1077 D	12	27	40	W009.12	B	12 09	12 58			12 09	12 58	12 12	12 54
1077 N	13	21	11	E 157.51	A	12 58 13 44	13 04 13 57	13 04	13 55	13 04	13 57		
1078 D	14	14	54	W035.94	A	13 57	14 38			13 57	14 38	13 59	14 37
1078 N	15	08	25	E 130.69	B	14 49	15 44	14 49	15 42	14 50	15 44		
1079 D	16	02	08	W062.75	B/A	15 44	16 33			15 44	16 33	15 46	16 21
1079 N	16	55	39	E 103.88	A	16 33	17 31	16 32	17 31	16 33	17 31		
1080 D	17	49	22	W089.54	A/B	17 31	18 20			17 31	18 20	17 33	18 04
1080 N	18	42	53	E 077.05	B	18 20	19 18	18 19	19 17	18 20	19 18		
1081 D	19	36	37	W116.35	B/A	19 18	20 07			19 18	20 07	19 21	20 06
1081 N	20	30	07	E 050.28	A	20 07	21 06	20 06	21 04	20 07	21 06		
1082 D	21	23	51	W143.17	A/B	21 06	21 54			21 06	21 54	21 08	21 50
1082 N	22	17	22	E 023.45	B	21 54	22 53	21 54	22 51	21 54	22 53		
1083 D	23	11	05	W169.99	B/A	22 53	23 41			22 53	23 41	22 55	23 27
1083 N	00	04	36	W003.36	A	23 41	00 40	23 41	00 39	23 41	00 40		

TABLE 2-2
SENSOR ON – OFF TIMES
DATE 28 JUNE 1970

DATA ORBIT	ASCEND/DESCEND NODE				HDRSS	IRIS		THIR HUMIDITY		THIR TEMP		IDCS	
	TIME			LONG		ON	OFF	ON	OFF	ON	OFF	ON	OFF
	HR	MIN	SEC	DEG		HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN
1084 D	00	58	19	E 163.19	A	00 40	01 29			00 40	01 28	00 43	01 24
1084 N	01	51	50	W030.18	B	01 29	02 27	01 28	02 26				
1085 D	02	45	33	E 136.41	B	02 27	03 16					02 30	03 12
1085 N	03	39	04	W057.00	B	03 16	03 28	03 15	03 27				
1086 D	04	32	47	E 109.59									
1086 N	05	26	18	W083.77	B	05 15	06 02	05 15	06 00	05 15	06 02		
1087 D	06	20	01	E 082.78	B	06 02	06 50			06 02	06 50	06 04	06 46
1087 N	07	13	32	W110.59	A/B	06 50	07 49	06 57	07 48	06 50	07 49		
1088 D	08	07	16	E 055.96	A	07 49	08 38	08 04	08 36	07 49	08 35	07 51	08 02
1088 N	09	00	46	W137.41	B	08 38	09 36	08 38	09 34	08 38	09 36		
1089 D	09	54	30	E 029.18	B	09 36	10 25			09 36	10 25	09 39	10 21
1089 N	10	48	01	W164.23	A	10 25	11 24	10 25	11 22	10 25	11 24		
1090 D	11	41	44	E 002.36	A	11 24	12 12			11 24	12 08	11 26	12 08
1090 N	12	35	15	E 169.00	B	12 12	13 11	12 11	13 10	12 12	13 11		
1091 D	13	28	58	W024.25	B	13 11	13 59			13 11	13 54	13 13	13 54
1091 N	14	22	29	E 142.17	A	13 59	14 58	13 59	14 57	13 59	14 58		
1092 D	15	16	12	W051.28	A/B	14 58	15 47			14 58	15 47	15 00	15 39
1092 N	16	09	43	E 115.36	B	15 47	16 45	15 46	16 43	15 47	16 45		
1093 D	17	03	26	W078.09	B/A	16 45	17 34			16 45	17 34	16 48	17 29
1093 N	17	56	57	E 088.54	A	17 34	18 32	17 33	18 31	17 34	18 32		
1094 D	18	50	41	W104.88	A/B	18 32	19 21			18 32	19 21	18 35	19 17
1094 N	19	44	11	E 061.72	B	19 21	20 20	19 20	20 19	19 21	20 20		
1095 D	20	37	55	W131.69	B/A	20 20	21 08			20 20	21 08	20 22	20 53
1095 N	21	31	25	E 034.94	A	21 08	22 07	21 08	22 06	21 08	22 07		
1096 D	22	25	09	W158.51	A/B	22 07	22 56			22 07	22 56	22 09	22 40
1096 N	23	18	40	E 008.12	B	22 56	23 54	22 55	23 53	22 56	23 54		

TABLE 2-2
SENSOR ON – OFF TIMES
DATE 29 JUNE 1970

DATA ORBIT	ASCEND/DESCEND NODE				HDRSS	IRIS		THIR HUMIDITY		THIR TEMP		IDCS	
	TIME			LONG		ON	OFF	ON	OFF	ON	OFF	ON	OFF
	HR	MIN	SEC	DEG		HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN
1097 D	00	12	23	E 174.68	B	23 54	00 43			23 54	00 42	23 57	00 38
1097 N	01	05	54	W018.70	A	00 43	01 41	00 42	01 40	00 43	01 41		
1098 D	01	59	37	E 147.89	A	01 41	02 30			01 41	02 30	01 41	02 19
1098 N	02	53	08	W045.51	B	02 30	02 42	02 29	02 41	02 30	02 42		
1099 D	03	46	51	E 121.08									
1099 N	04	40	22	W072.30	A	04 33	05 16	04 33	05 14	04 33	05 16		
1100 D	05	34	05	E 094.25	A	05 16	06 04			05 16	06 04		
1100 N	06	27	36	W099.11	A	06 04	07 03	06 04	06 11	06 04	06 12		
1100 N	06	27	36	W099.11	A			06 16	07 02	06 16	07 03		
1101 D	07	21	20	E 067.44	A	07 03	07 52	07 18	07 51	07 03	07 50	07 05	07 16
1101 N	08	14	50	W125.93	B	07 52	08 50	07 53	08 49	07 53	08 50		
1102 D	09	08	34	E 040.65	B	08 50	09 37	09 05	09 37	08 50	09 37	08 53	09 03
1102 N	10	02	04	W152.75	A			09 38	10 36	09 39	10 38		
1103 D	10	55	48	E 013.84	A	10 41	11 26			10 38	11 23	10 40	11 20
1103 N	11	49	19	W179.53	B	11 26	12 25	11 26	12 24	11 26	12 25		
1104 D	12	43	02	W012.98	B	12 25	13 13			12 25	13 09	12 27	13 09
1104 N	13	36	33	E 153.66	A	13 13	14 12	13 13	14 10	13 13	14 12		
1105 D	14	30	16	W039.79	A/B	14 12	14 53			14 12	15 01	14 14	14 53
1105 N	15	23	47	E 126.83	B			15 00	15 58	15 01	15 59		
1106 D	16	17	30	W066.62	B/A	16 33	16 48			15 59	16 48	16 02	16 47
1106 N	17	11	01	E 100.02	A	16 48	17 47	16 47	17 44	16 48	17 47		
1107 D	18	04	44	W093.39	A/B	17 47	18 35			17 47	18 35	17 49	18 34
1107 N	18	58	15	E 073.20	B	18 35	19 34	18 35	19 32	18 35	19 34		
1108 D	19	51	59	W120.22	B/A	19 34	20 22			19 34	20 22	19 36	20 21
1108 N	20	45	29	E 046.42	A	20 22	21 21	20 22	21 20	20 22	21 21		
1109 D	21	39	13	W147.03	A/B	21 21	21 53			21 21	22 10	21 23	22 05
1109 N	22	32	43	E 019.60	B			22 09	23 07	22 10	23 08		
1110 D	23	26	27	W173.85	B/A	23 20	23 57			23 08	23 57	23 11	23 42
1110 N	00	19	58	W007.22	A	23 57	00 55	23 56	00 54	23 57	00 55		

TABLE 2-2
SENSOR ON – OFF TIMES
DATE 30 JUNE 1970

DATA ORBIT	ASCEND/DESCEND NODE				HDRSS	IRIS				THIR HUMIDITY				THIR TEMP				IDCS			
	TIME			LONG		ON		OFF		ON		OFF		ON		OFF		ON		OFF	
	HR	MIN	SEC	DEG		HR	MIN	HR	MIN	HR	MIN	HR	MIN	HR	MIN	HR	MIN	HR	MIN	HR	MIN
1111 D	01	13	41	E 159.38	A	00	55	01	44					00	55	01	44	00	55	01	36
1111 N	02	07	12	W034.03	B	01	44	02	43	01	43	02	41	01	44	02	43				
1112 D	03	00	55	E 132.56	B	02	43	03	31					02	43	03	31	02	45	03	23
1112 N	03	54	26	W060.81	B	03	31	03	43	03	31	03	43								
1113 D	04	48	09	E 105.75																	
1113 N	05	41	40	W087.63	B	05	31	06	17	05	31	06	14	05	31	06	17				
1114 D	06	35	23	E 078.92	B	06	17	07	06					06	17	07	06	06	17	07	05
1114 N	07	28	54	W114.44	A	07	06	08	04	07	05	08	03	07	13	08	04				
1115 D	08	22	38	E 052.11	A	08	04	08	52	08	20	08	51	08	04	08	50	08	07	08	18
1115 N	09	16	08	W141.27	B					08	53	09	50	08	53	09	52				
1116 D	10	09	52	E 025.34	B	10	35	10	39					09	52	10	39	09	54	10	36
1116 N	11	03	22	W168.04	A	10	40	11	39	10	40	11	38	10	40	11	39				
1117 D	11	57	06	W001.49	A	11	39	12	27					11	39	12	27	11	41	12	23
1117 N	12	50	36	E 165.14	B	12	27	12	30	12	30	13	23	12	30	13	26				
1118 D	13	44	20	W028.30	B	13	53	14	10					13	26	14	10	13	28	14	07
1118 N	14	37	51	E 138.32	B	14	16	15	13	14	16	15	12	14	16	15	13				
1119 D	15	31	34	W055.12	B/A	15	13	16	02					15	13	16	02	15	16	15	54
1119 N	16	25	05	E 111.50	A	16	02	17	01	16	01	16	57	16	02	17	01				
1120 D	17	18	48	W081.90	A/B	17	01	17	49					17	01	17	49	17	03	17	34
1120 N	18	12	19	E 084.69	B	17	49	18	48	17	49	18	46	17	49	18	48				
1121 D	19	06	03	W108.72	B/A	18	48	19	36					18	48	19	35	18	50	19	22
1121 N	19	59	33	E 057.90	A	19	36	20	35	19	35	20	31	19	35	20	15				
1122 D	20	53	17	W135.53	A	20	35	21	06									20	38	21	05
1122 N	21	46	47	E 031.09	A	21	34	22	22	21	23	22	21	21	24	22	22				
1123 D	22	40	31	W162.36	A/B	22	22	23	11					22	22	23	11	22	25	22	56
1123 N	23	34	01	E 004.27	B	23	11	00	09	23	10	00	08	23	11	00	09				

SECTION 3

IMAGE DISSECTOR CAMERA SYSTEM MONTAGES

This section depicts the data from the Image Dissector Camera System (IDCS) experiment carried on the Nimbus 4 Meteorological Satellite. The pictorial montage presentation facilitates perusal and search of the IDCS data for preliminary research and also enables the user to determine his specific IDCS film data requirements.

The montages shown represent the daytime television pictures obtained for each day (UT) and are arranged in chronological order in a world montage format. Complete daylight orbital coverage was obtained with 15 consecutive pictures. Successive orbits, displaced about 27 degrees westward in longitude at the equator, provide adjacent pictorial data, with increasing overlap from the equator toward the poles. Data orbit number is indicated below each swath.

A vellum IDCS grid overlay (Daytime Location Guide), attached to the back of this catalog, is to be used for approximate location and orientation of the montage data. Proper alignment of the grid is accomplished by matching the grid indices on the equator with two "T" marks on each montage.

The data area, 6" x 7" in size, has been reduced from the original montage size of 22" x 32". This reduction, required for convenient catalog dimensions, still permits recognition of major cloud and land features.

A description of the IDCS experiment and instructions for ordering IDCS data may be found in the Nimbus IV User's Guide, Section 2.

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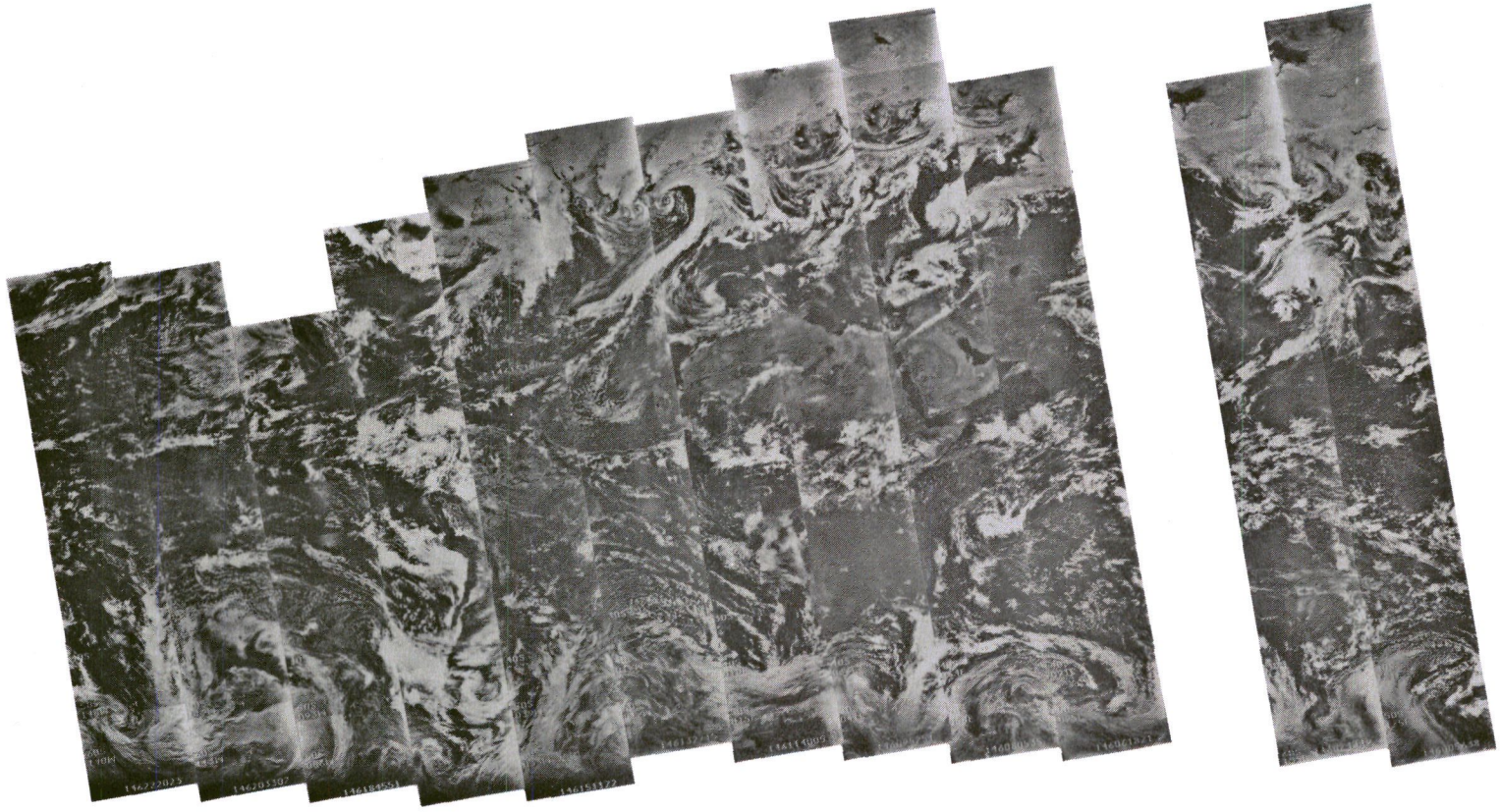
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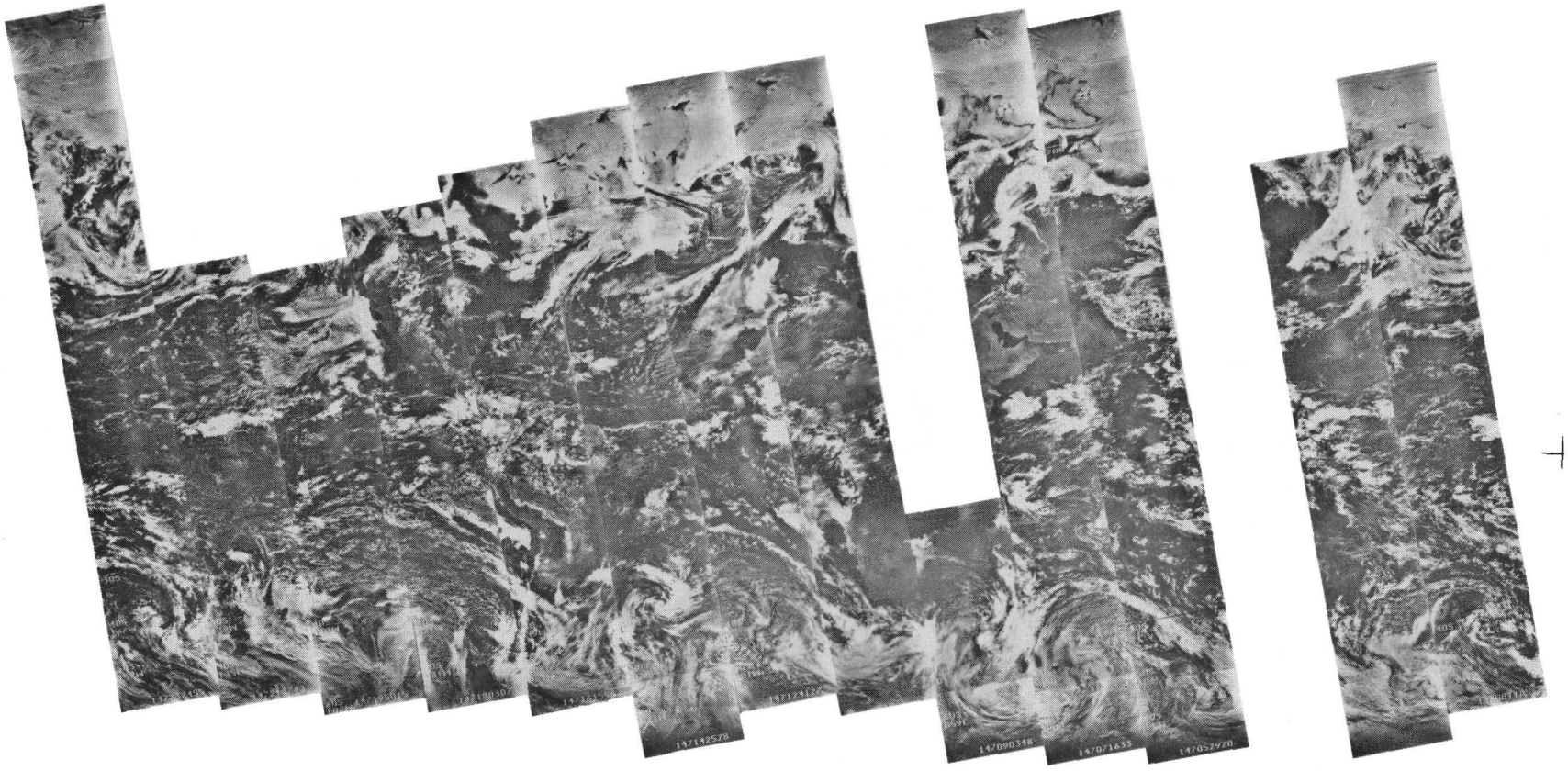
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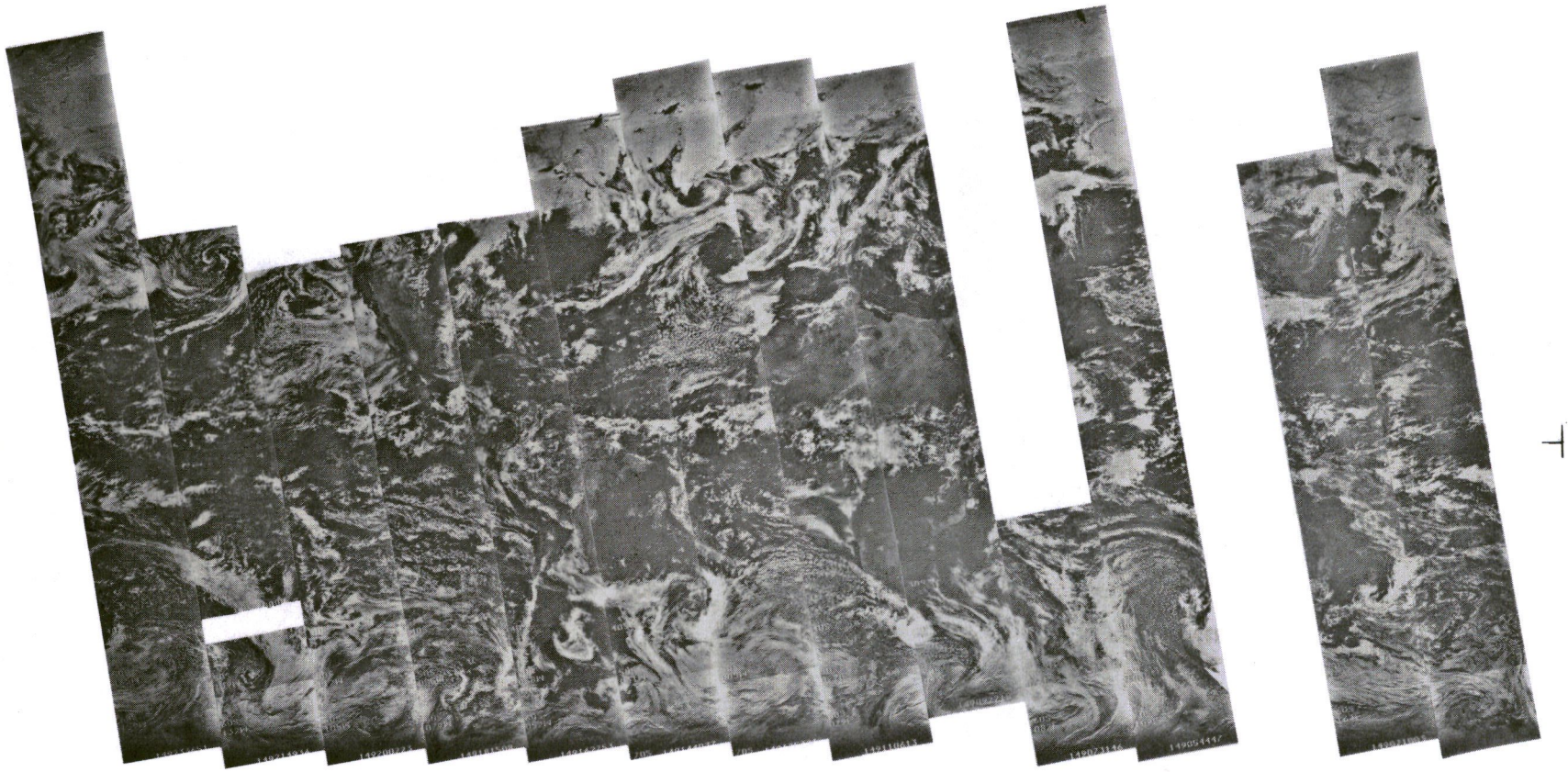


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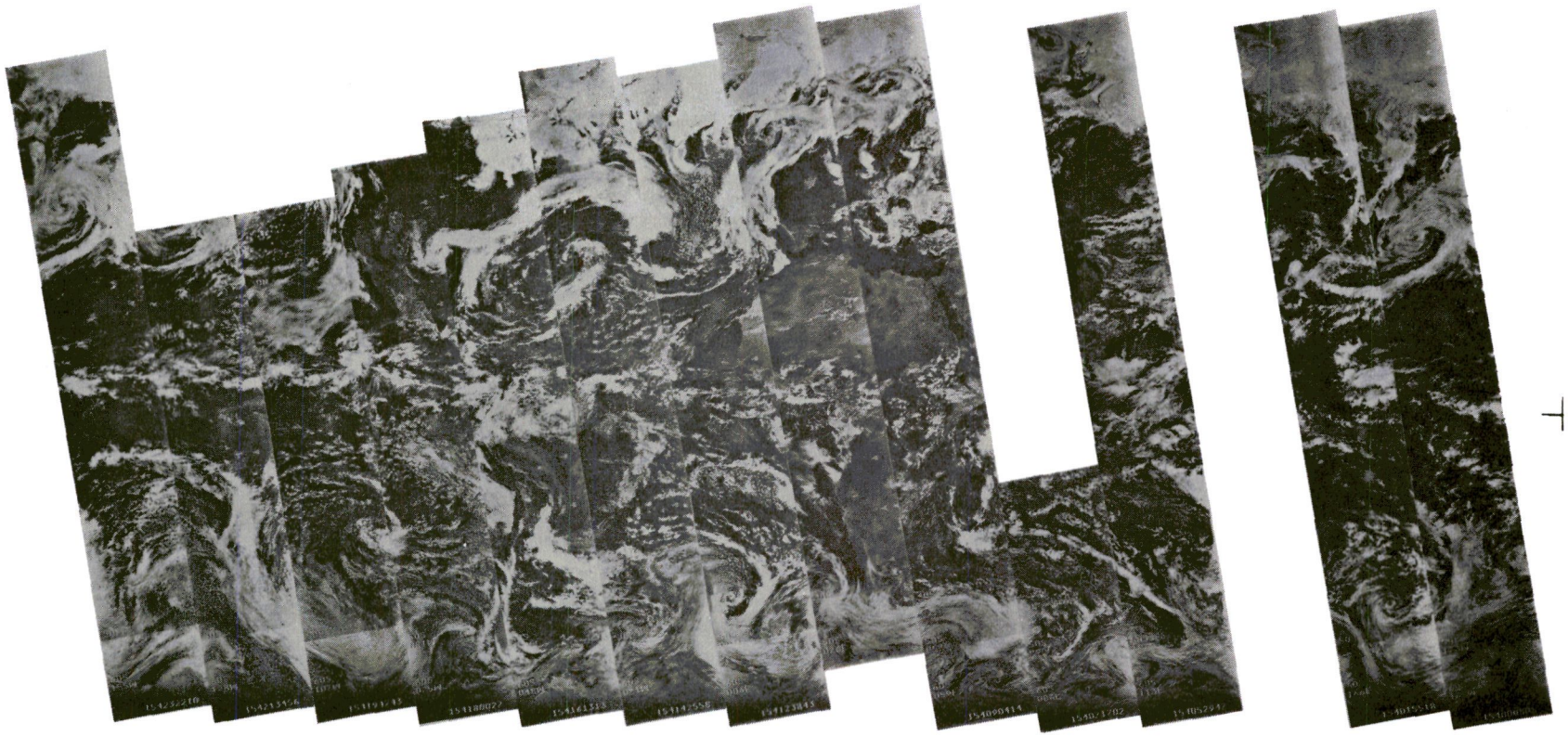
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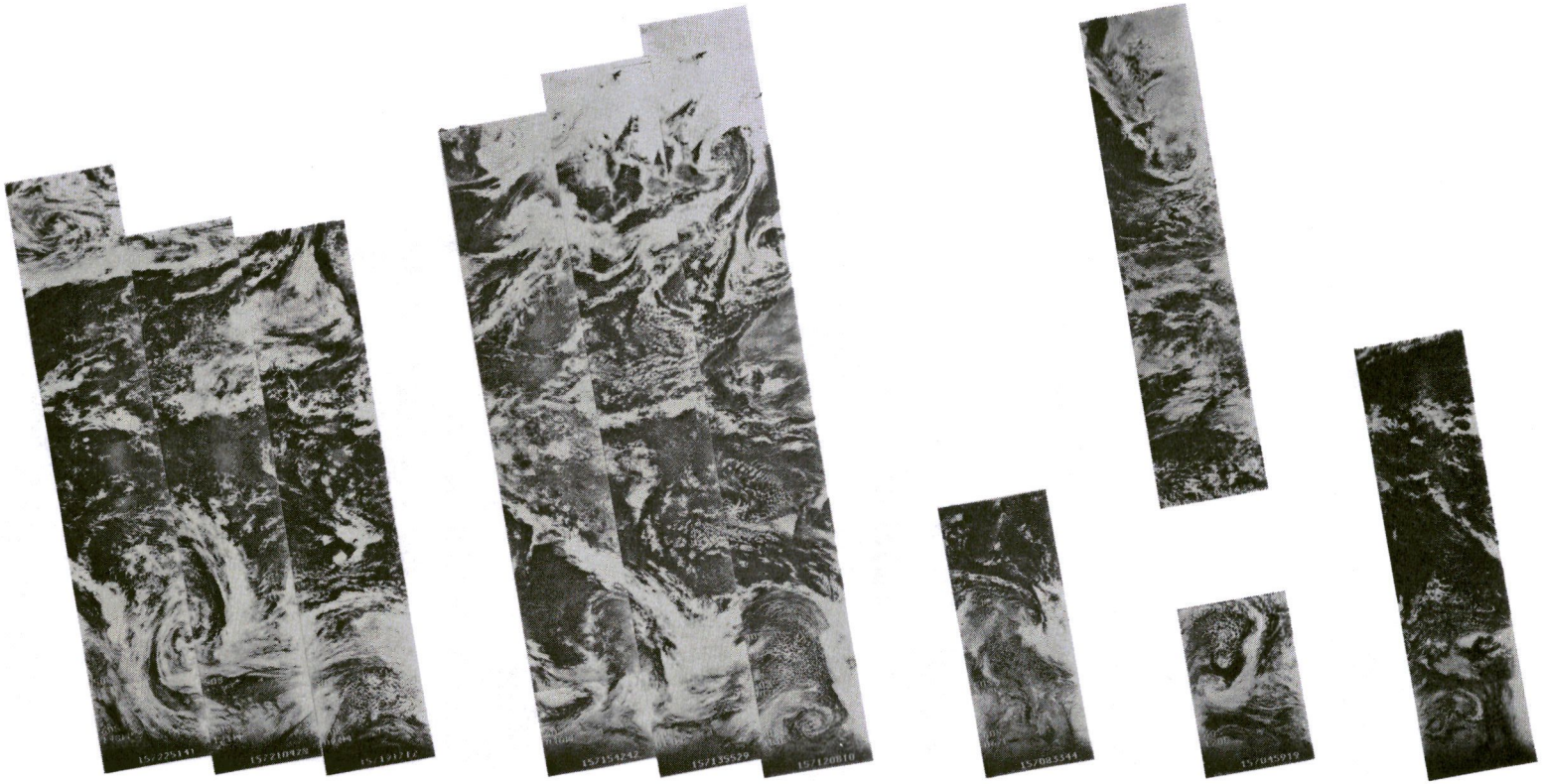
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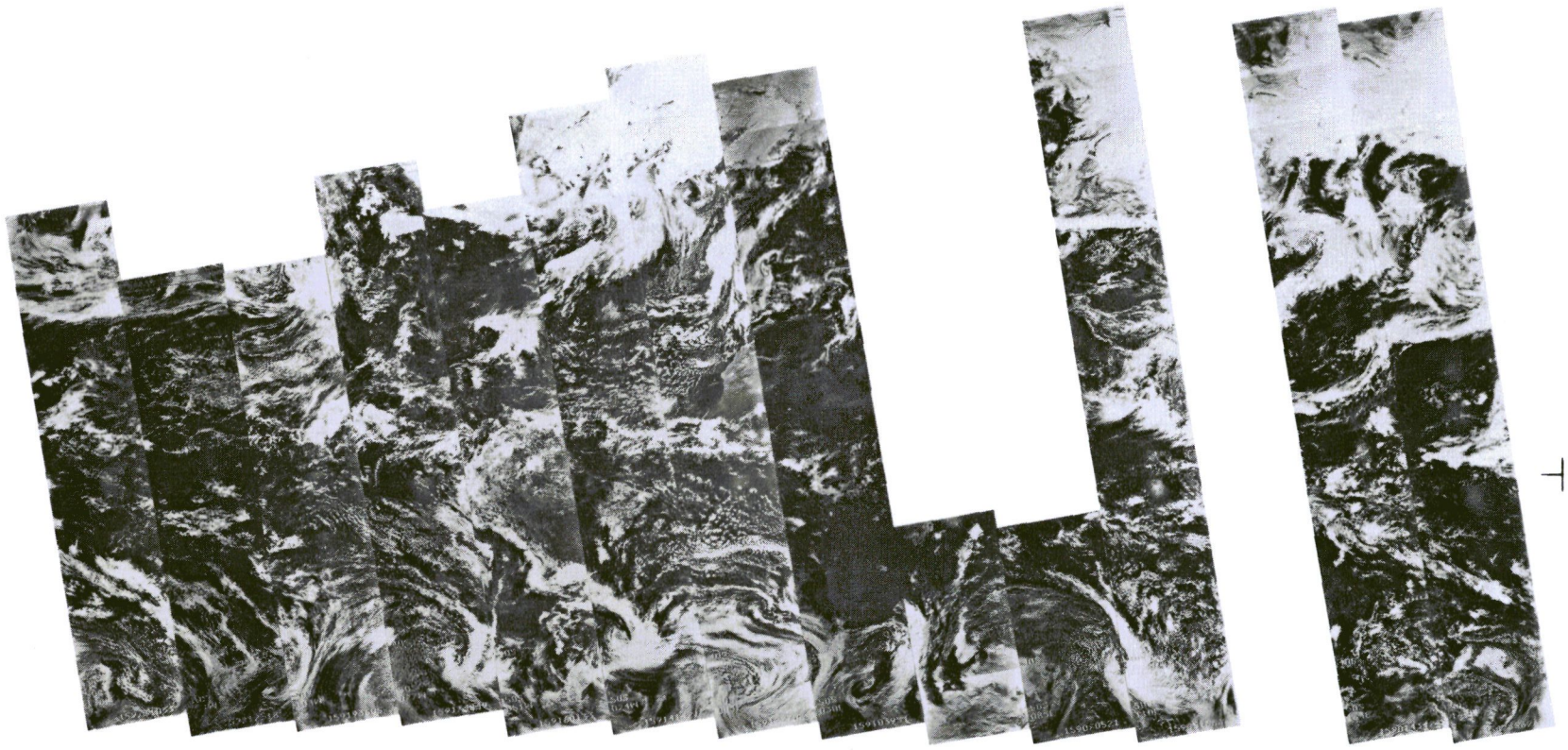


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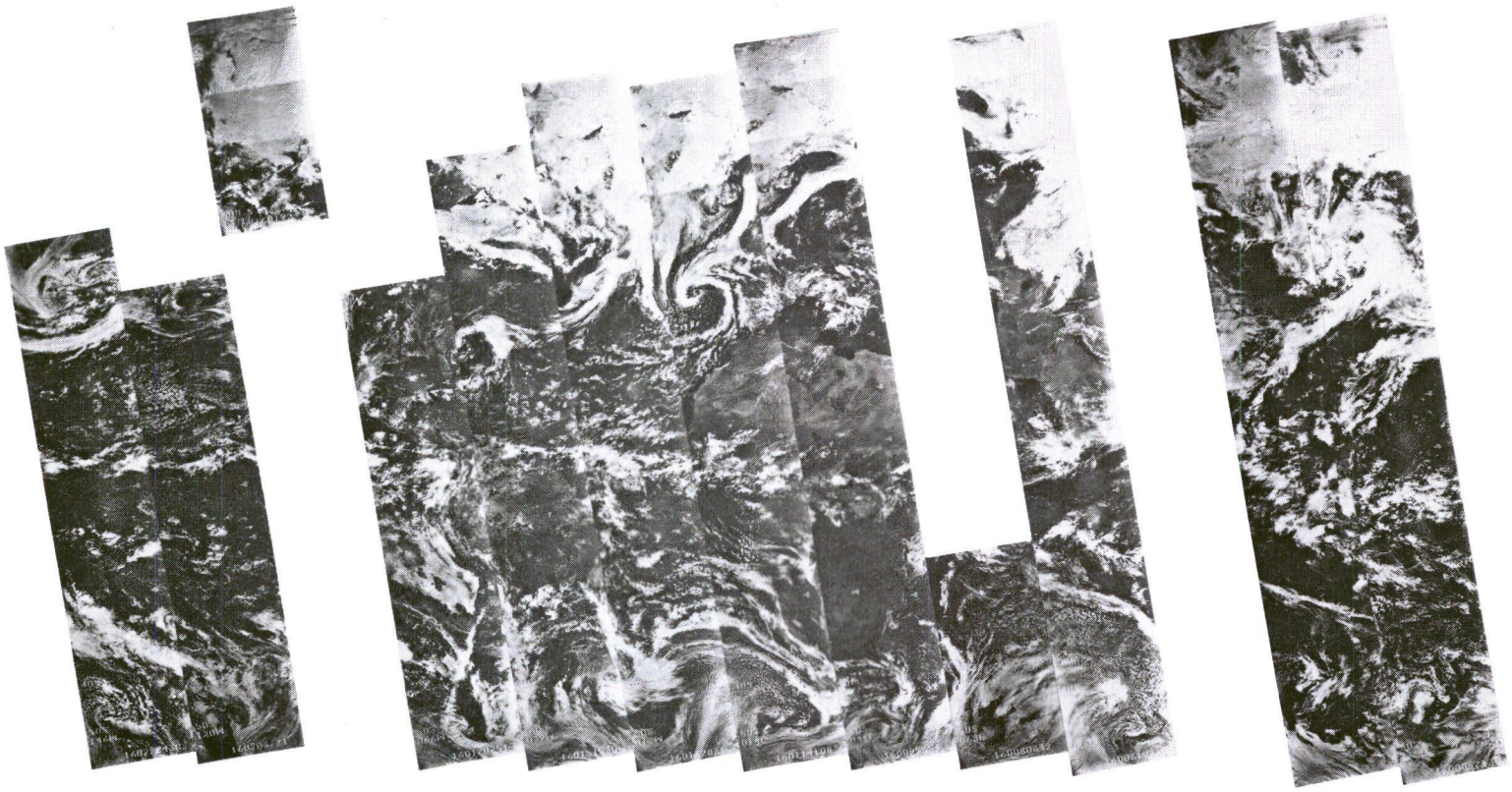
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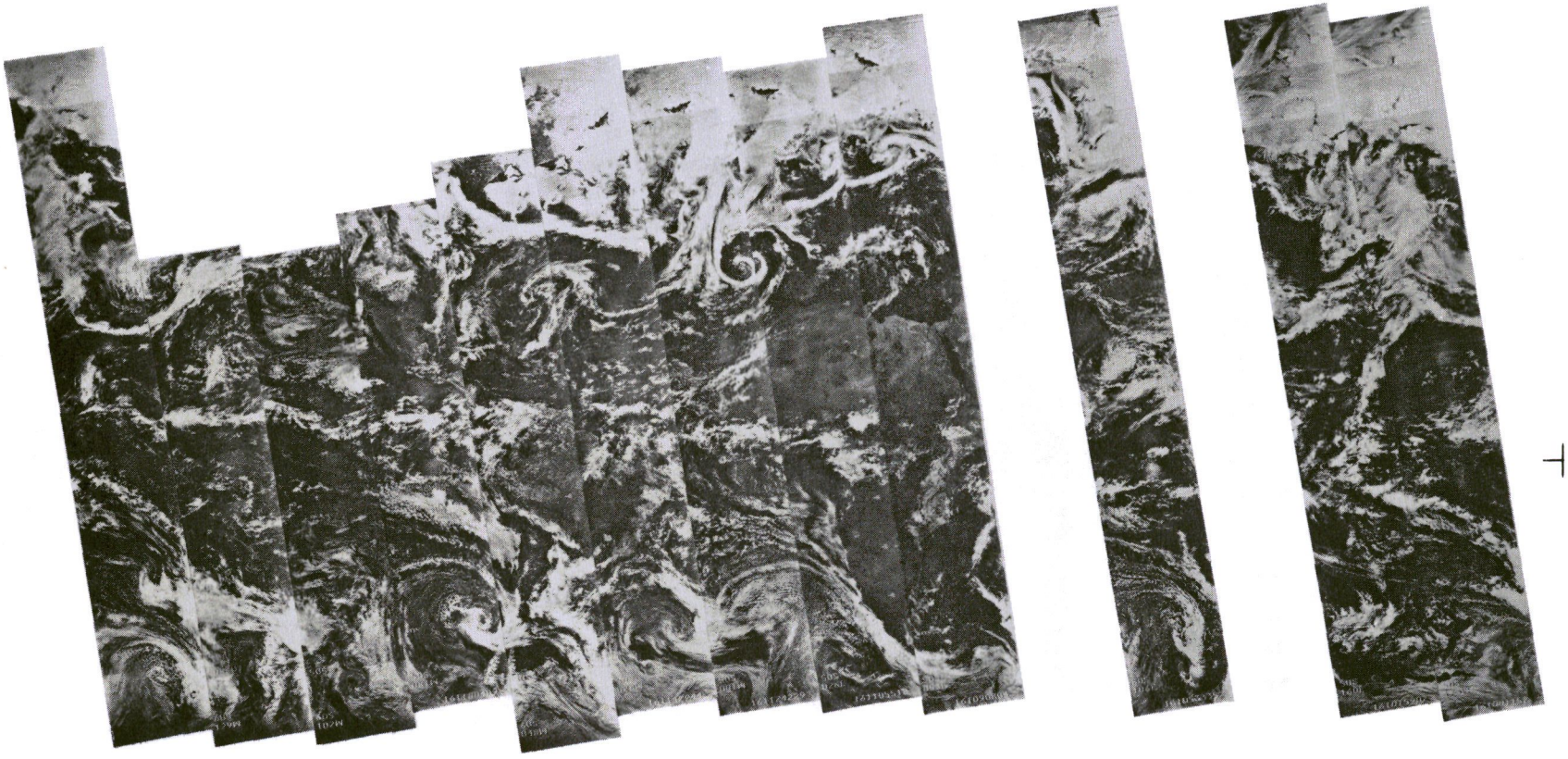
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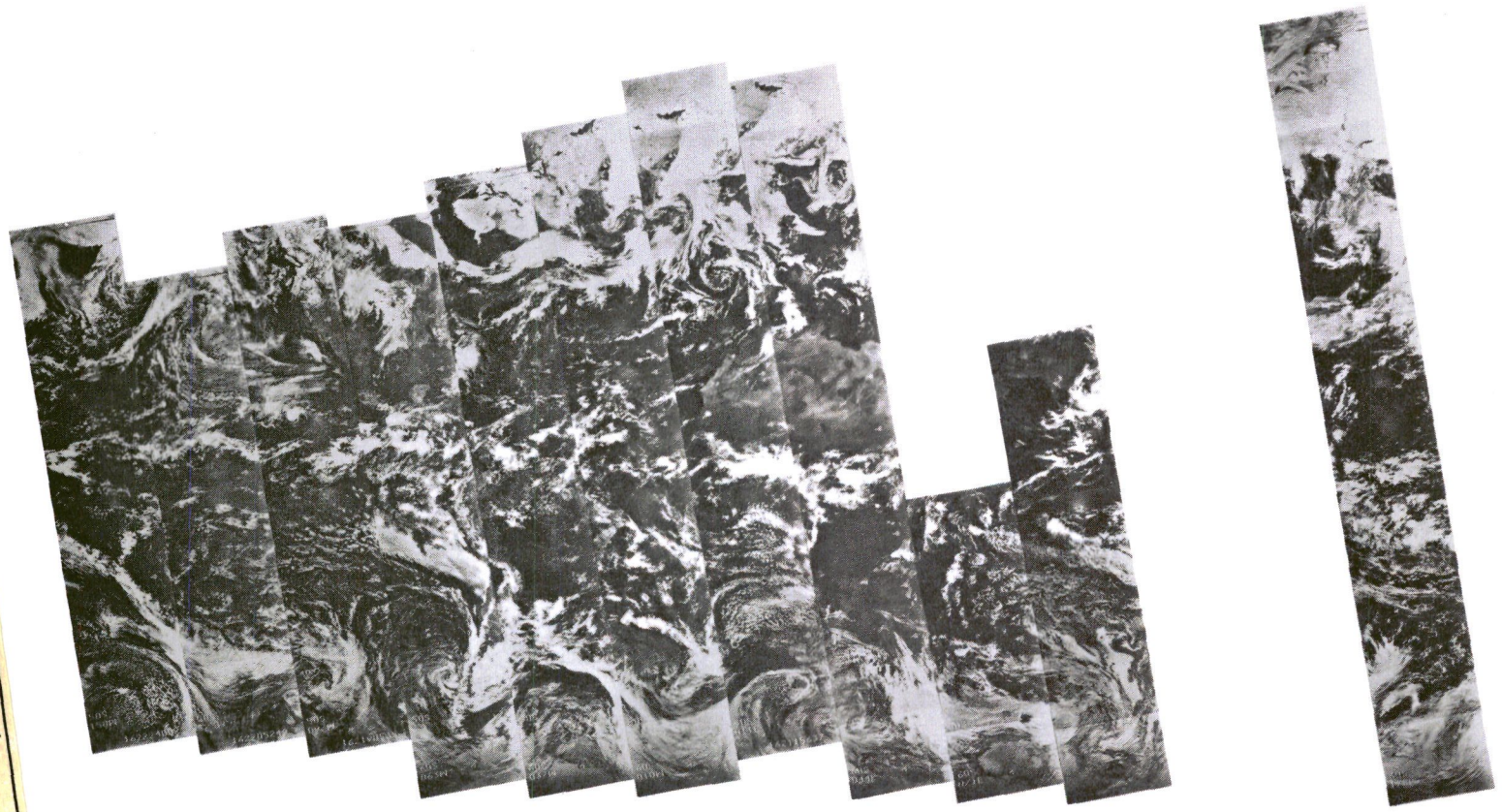
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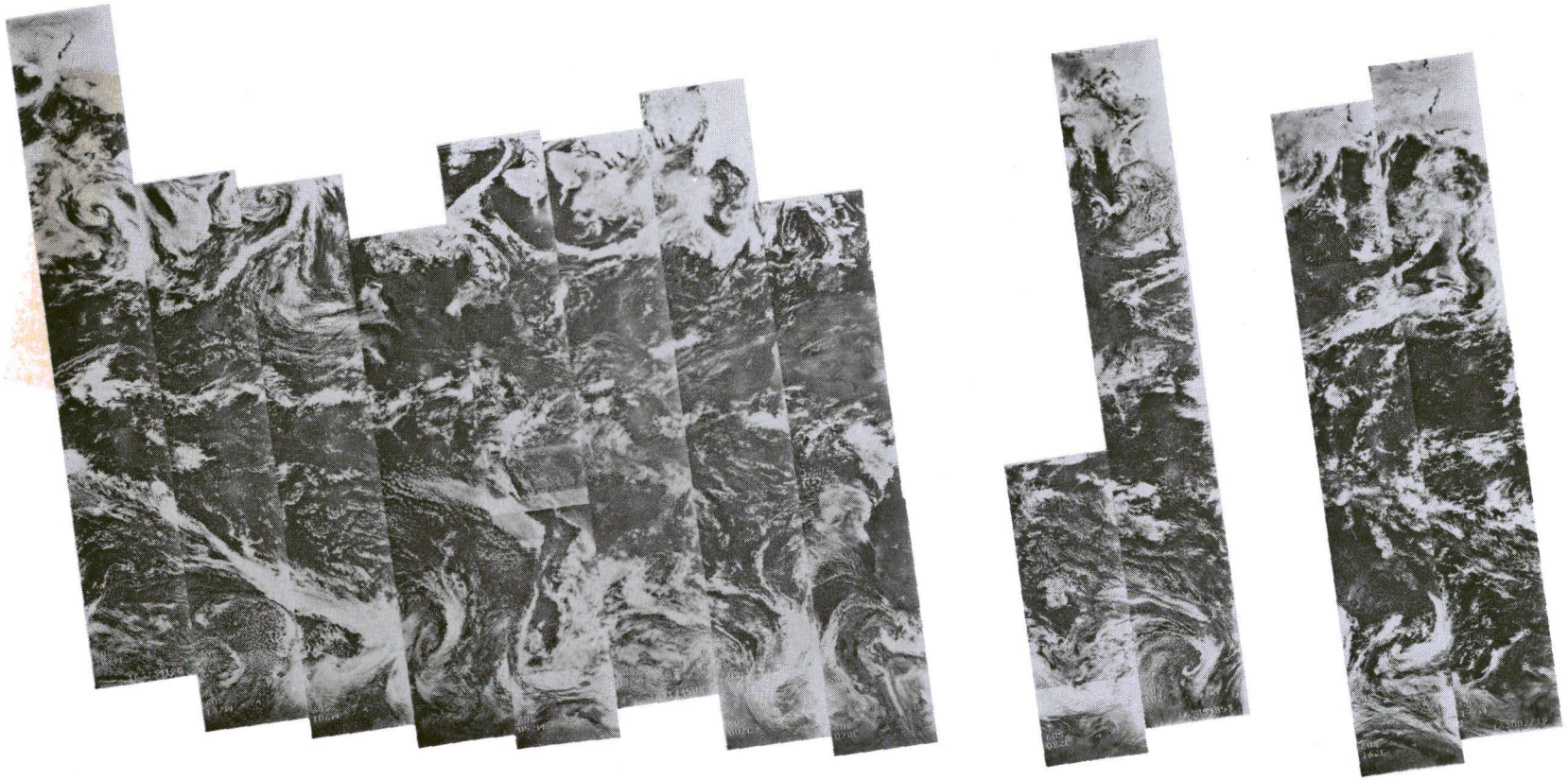
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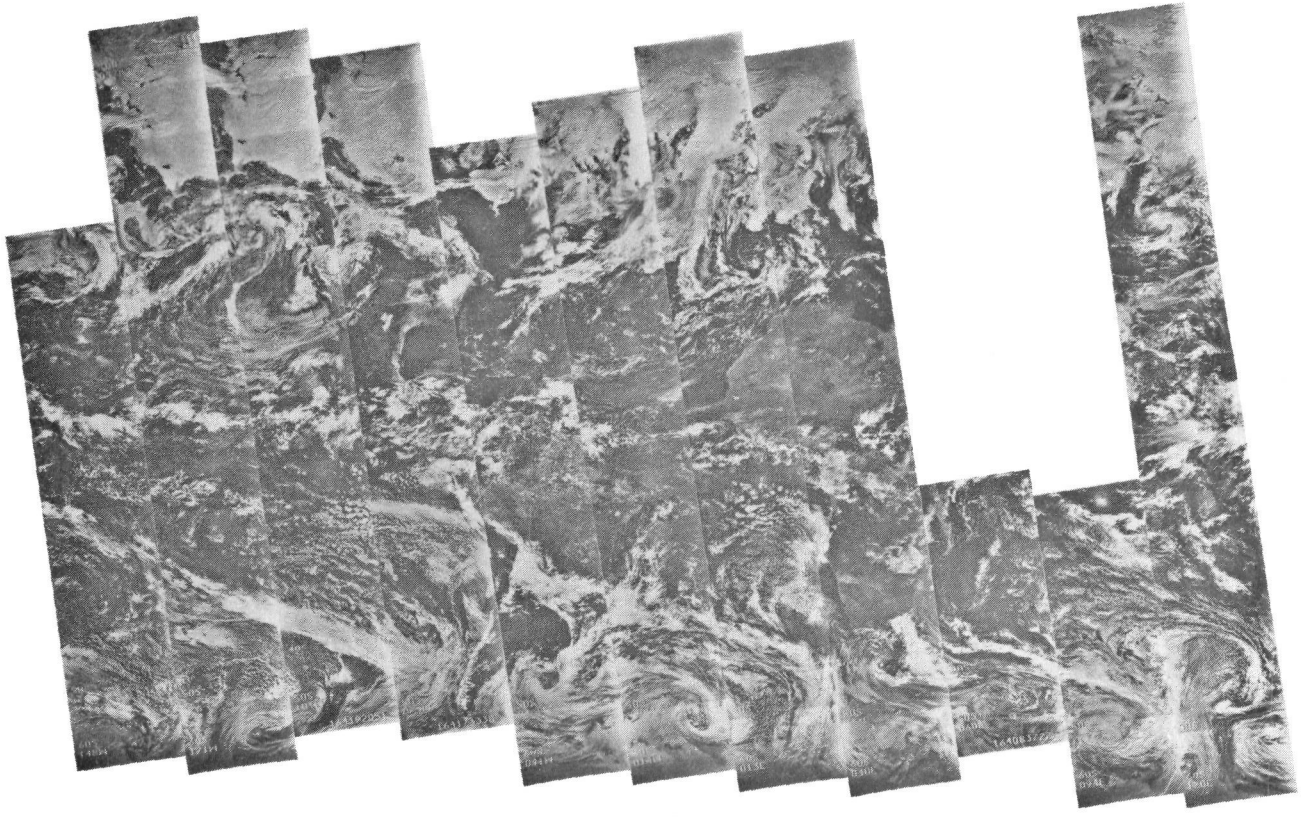
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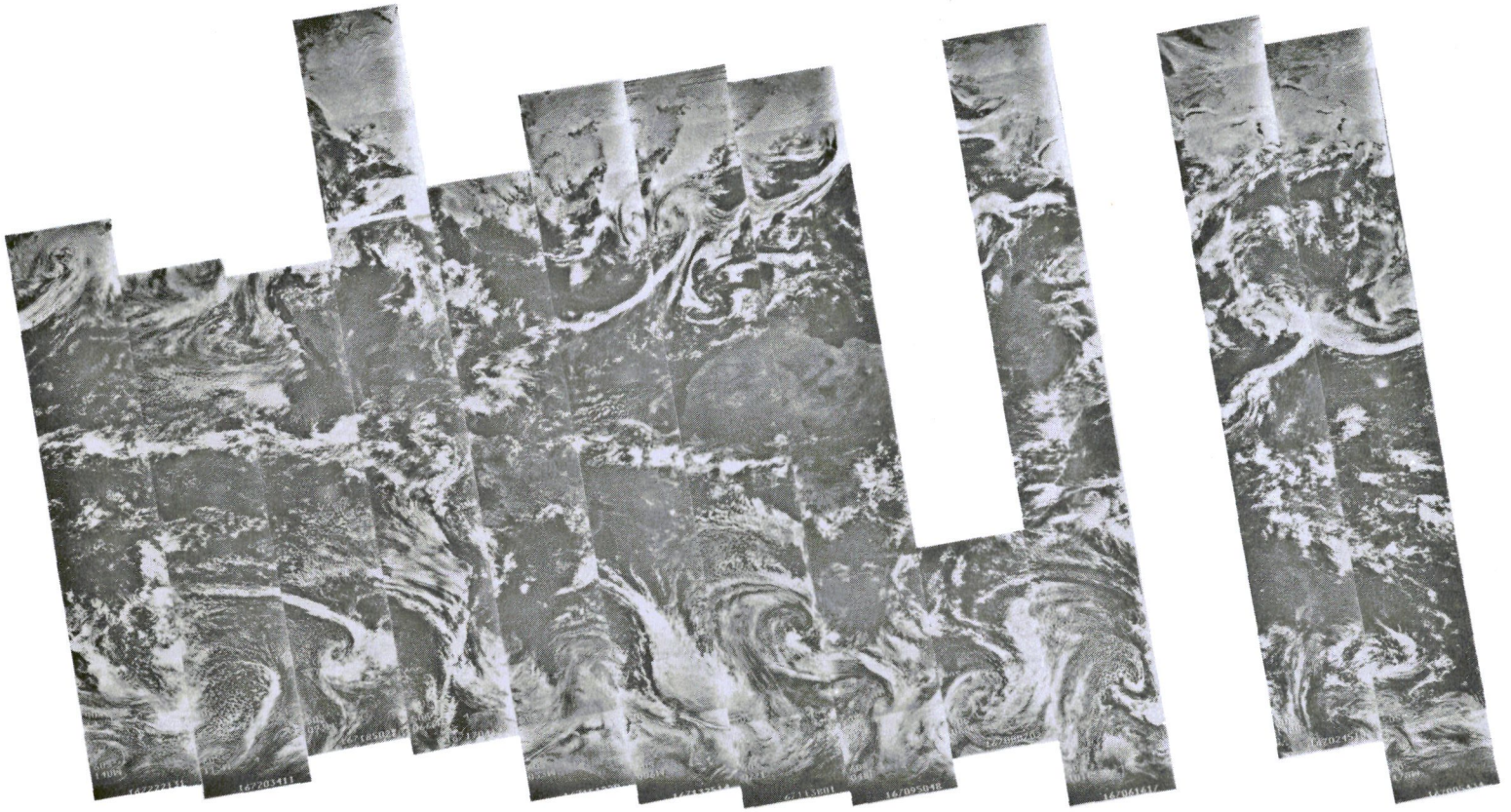
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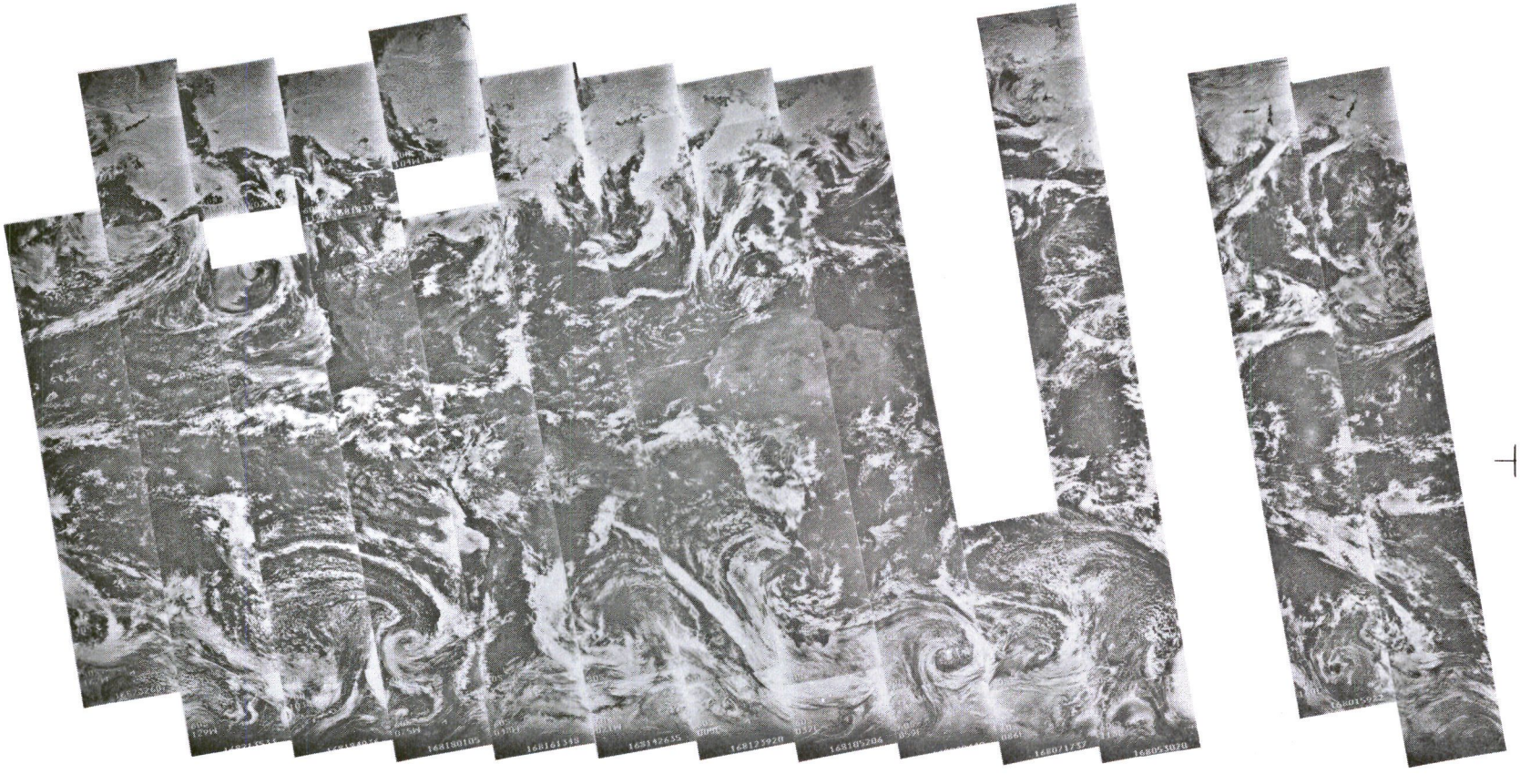
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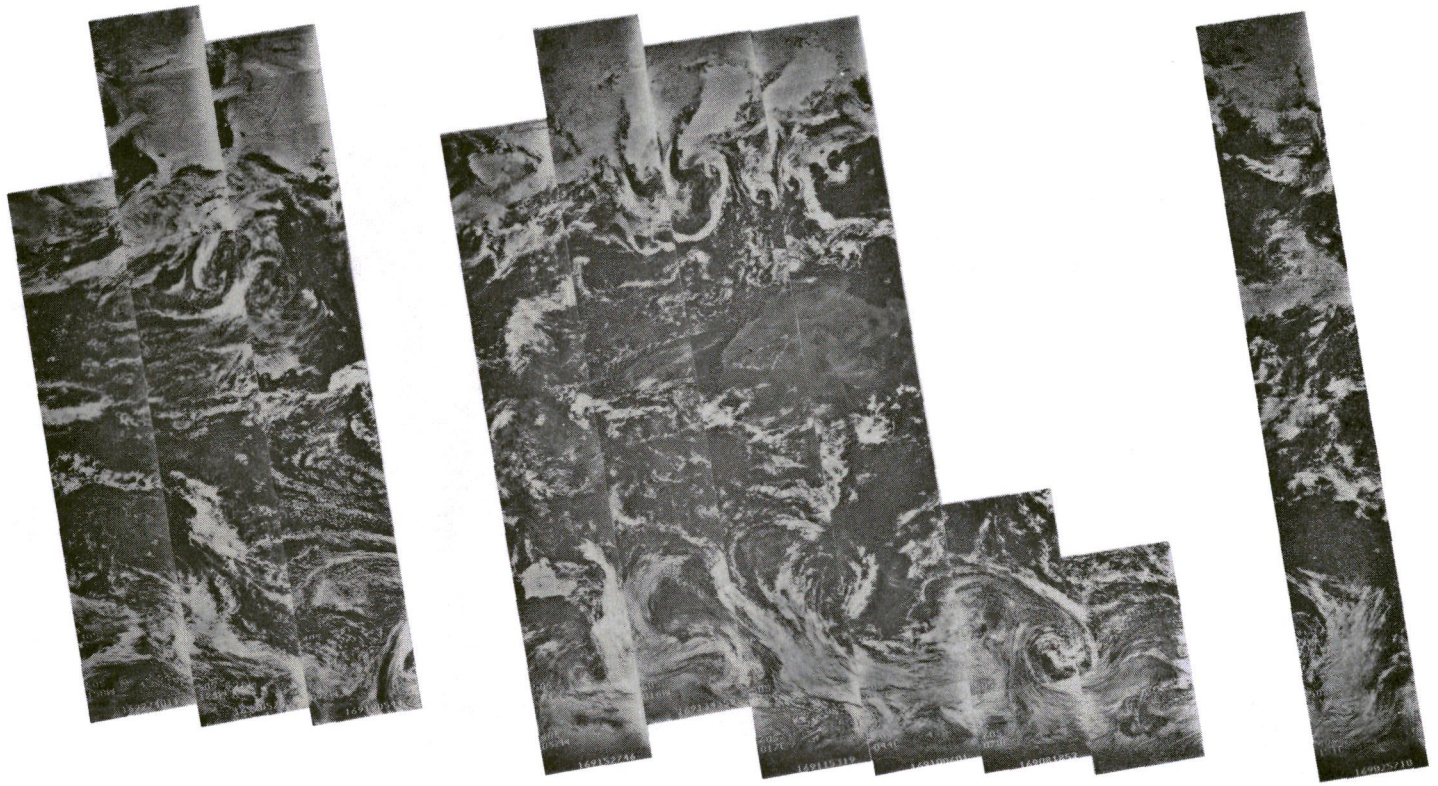
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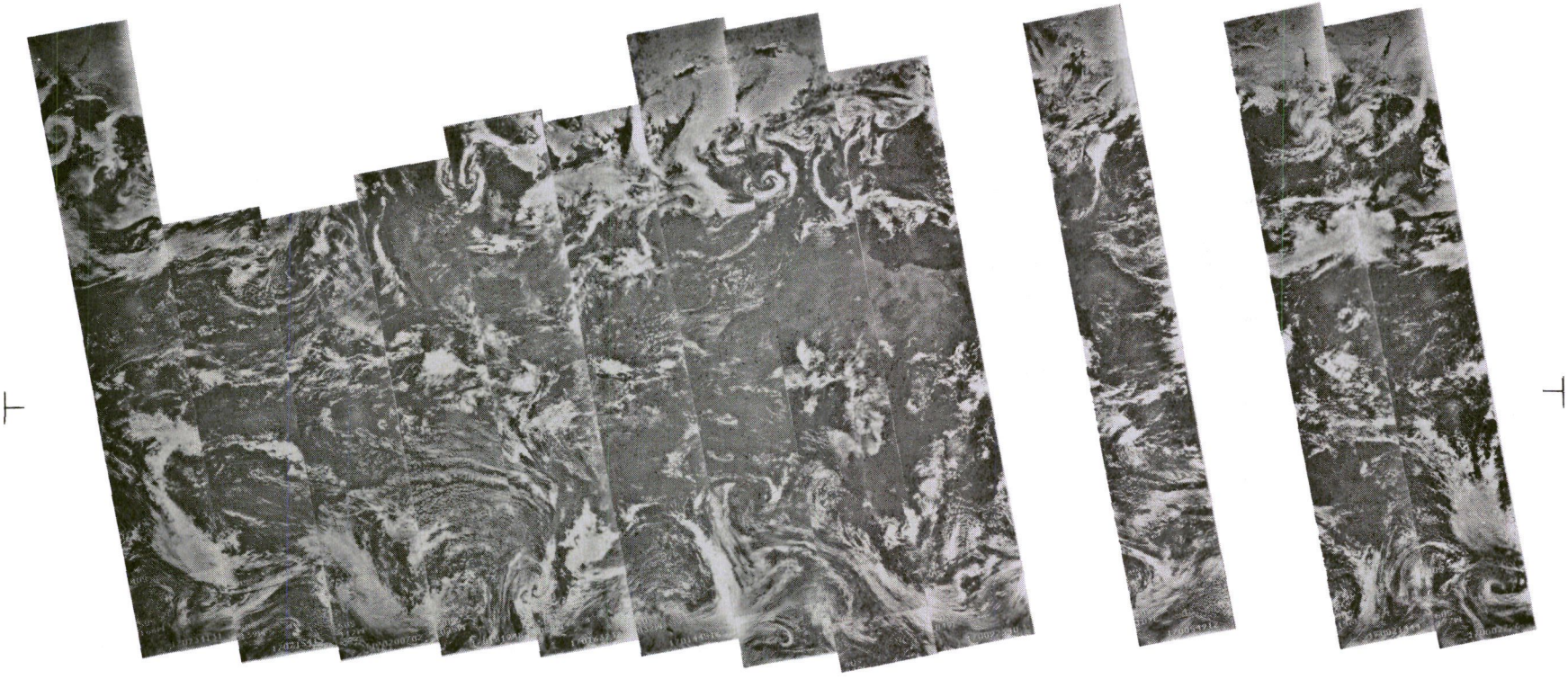
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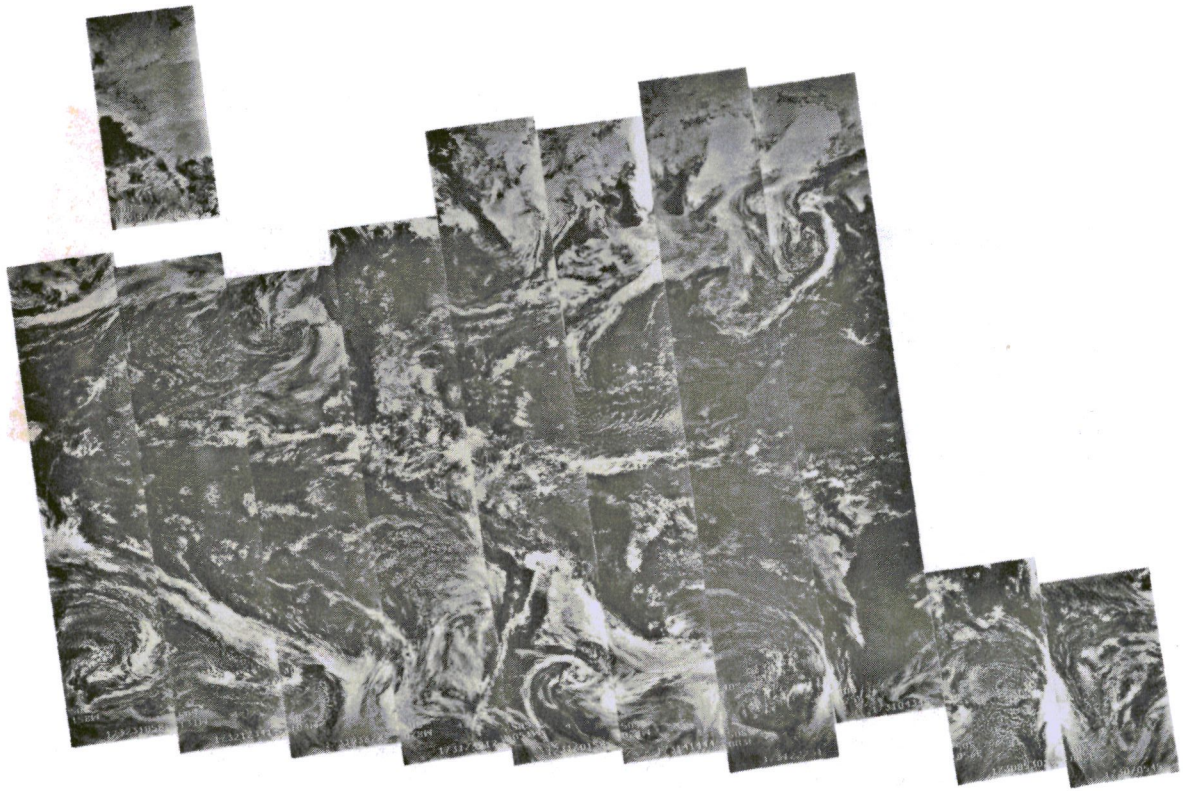
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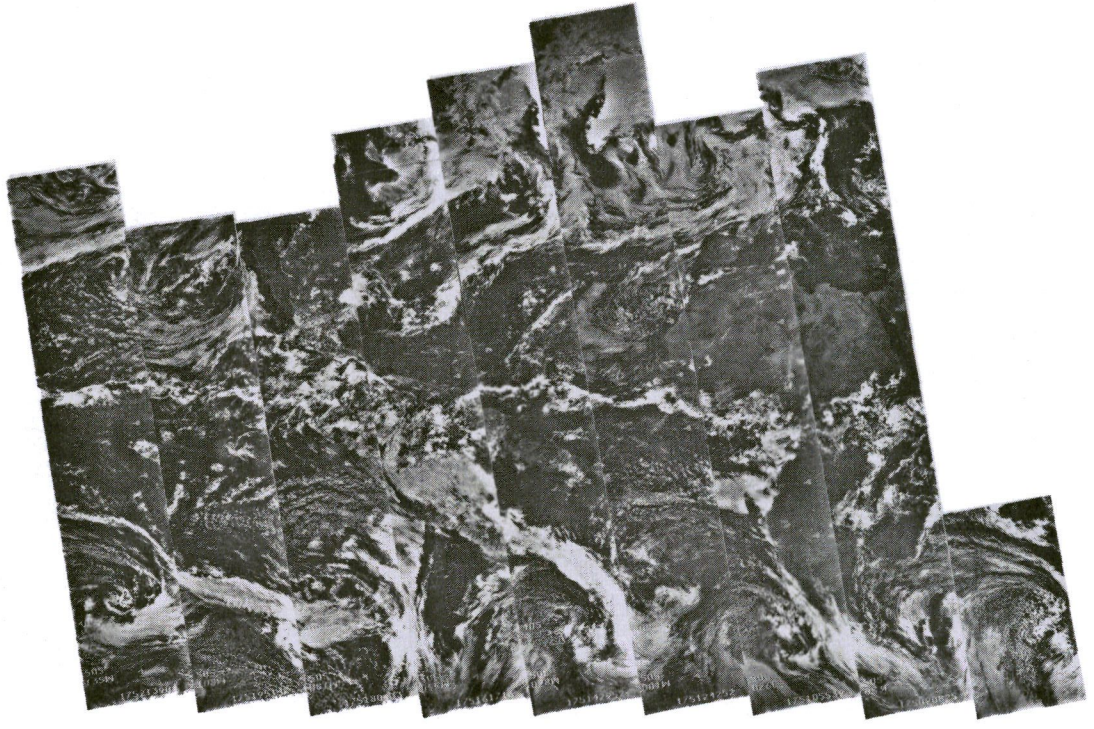


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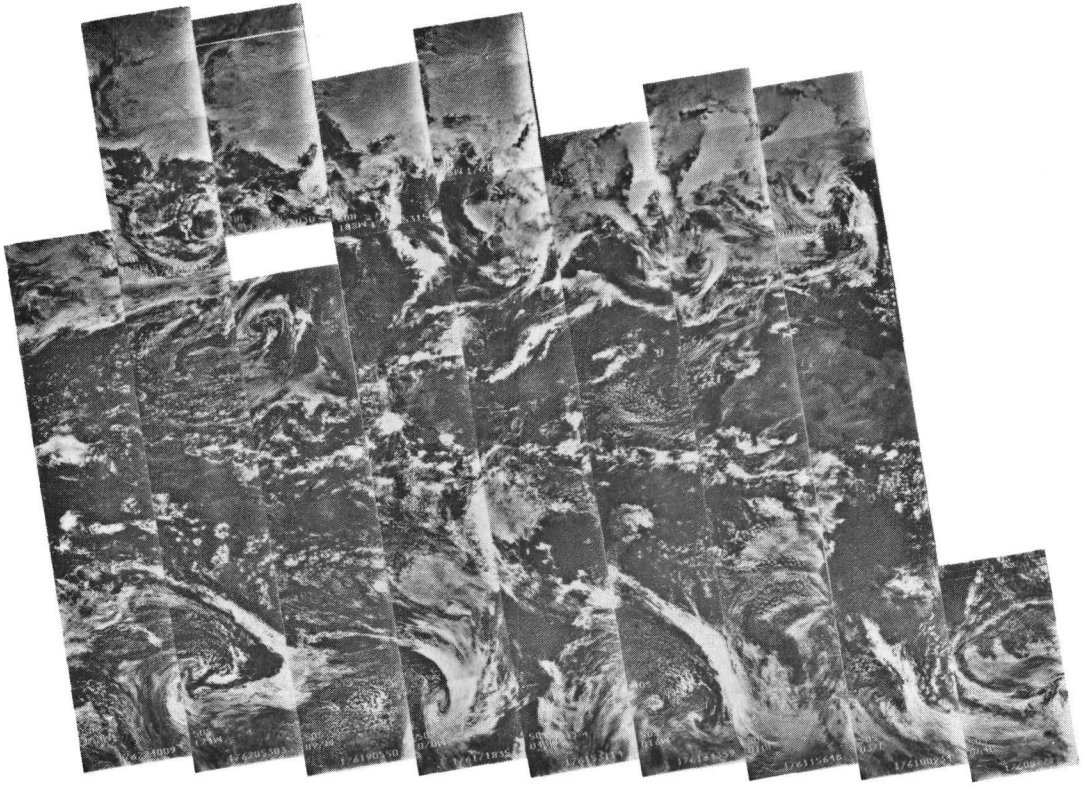
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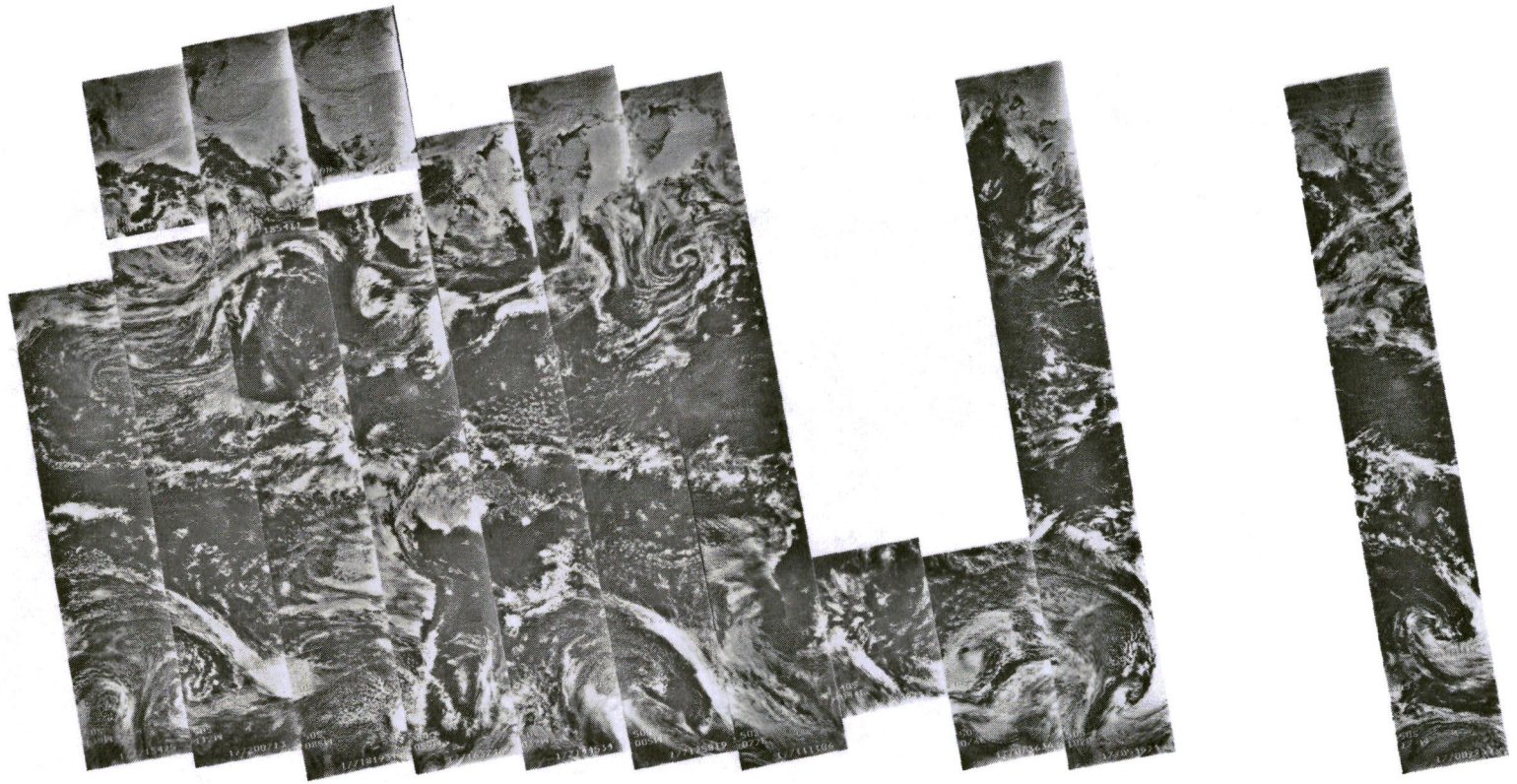
1043 1042 1041 1040 1039 1038 1037 1036 1035 1034 1033 1032 1031 1030

24 JUNE 1970



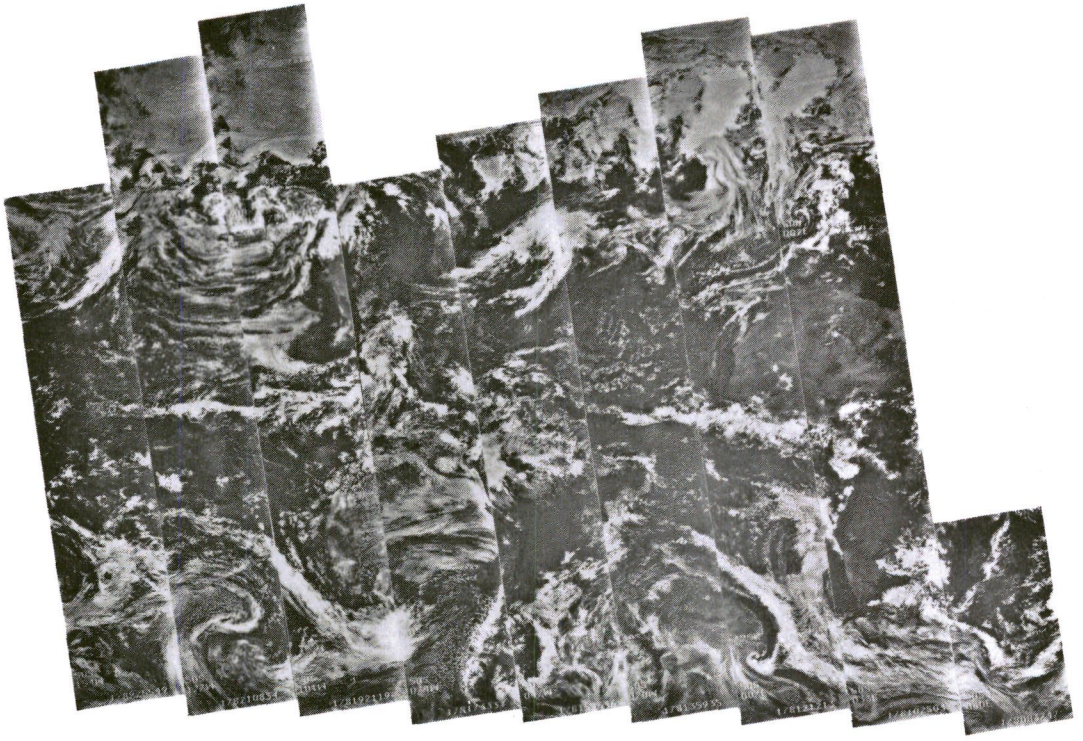
1056 1055 1054 1053 1052 1051 1050 1049 1048 1047 1046 1045 1044

25 JUNE 1970



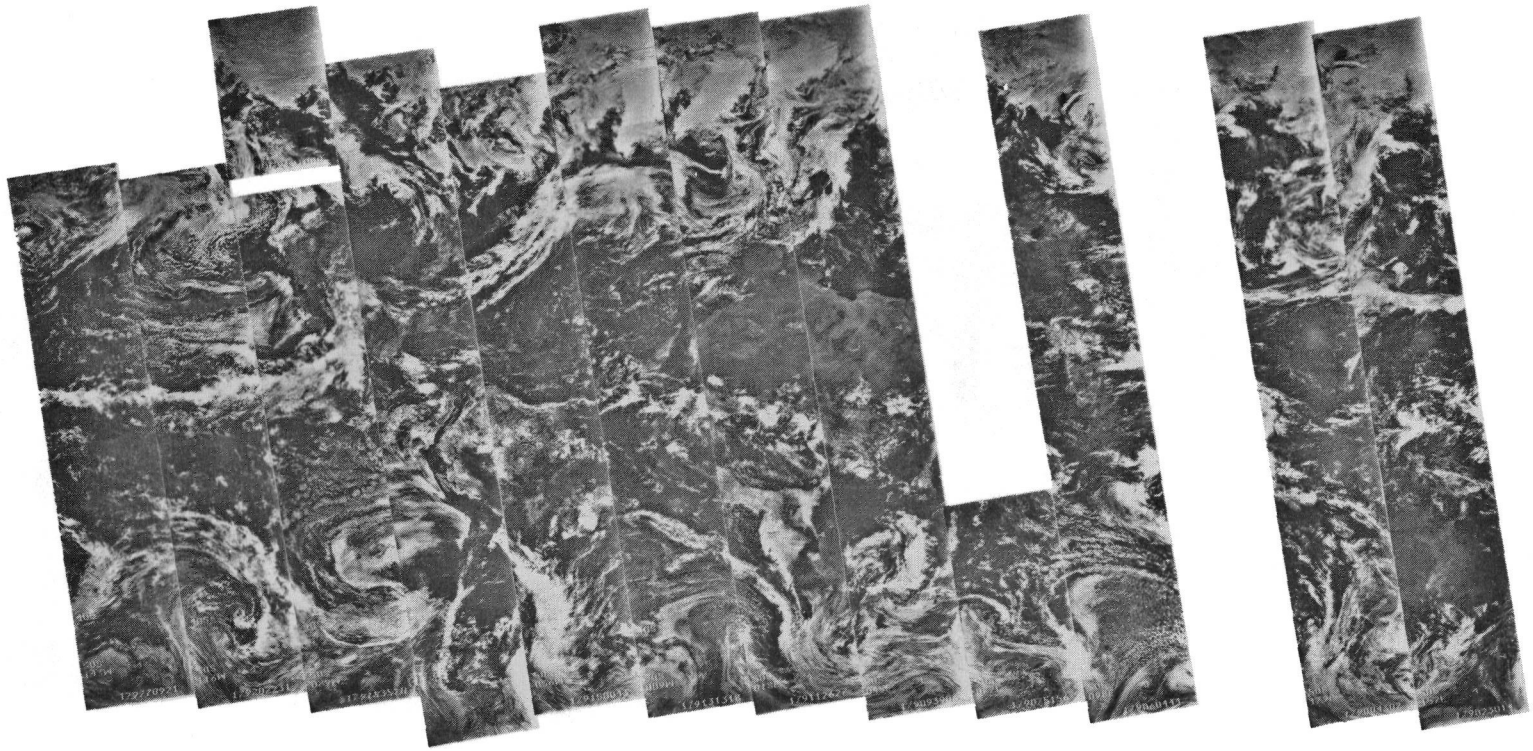
1070 1069 1068 1067 1066 1065 1064 1063 1062 1061 1060 1059 1058 1057

26 JUNE 1970



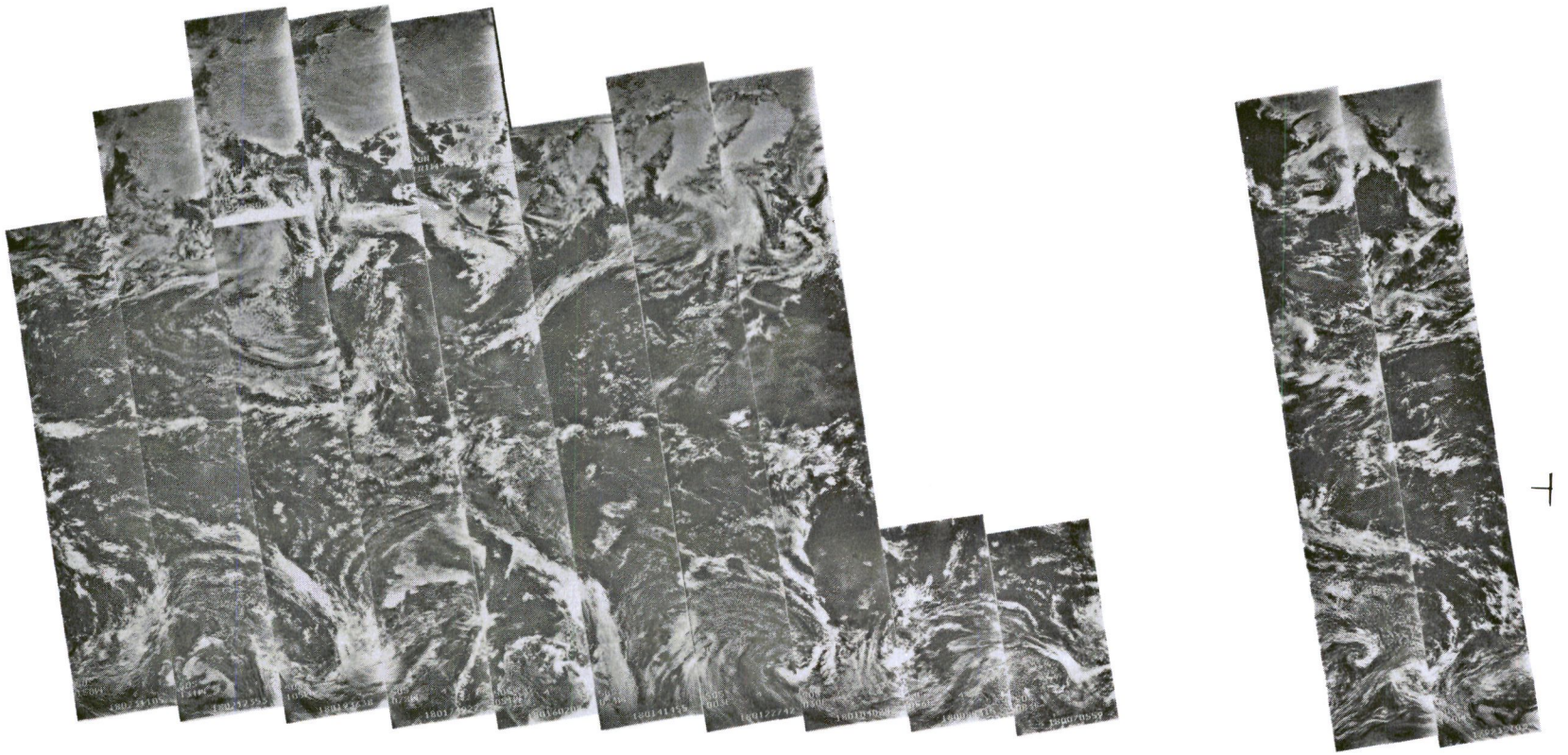
1083 1082 1081 1080 1079 1078 1077 1076 1075 1074 1073 1072 1071

27 JUNE 1970



1096 1095 1094 1093 1092 1091 1090 1089 1088 1087 1086 1085 1084

28 JUNE 1970



1110 1109 1108 1107 1106 1105 1104 1103 1102 1101 1100 1099 1098 1097

29 JUNE 1970

1123 1122 1121 1120 1119 1118 1117 1116 1115 1114 1113 1112 1111

30 JUNE 1970

SECTION 4

TEMPERATURE-HUMIDITY INFRARED RADIOMETER MONTAGES

This section pictorially documents the data from the Temperature-Humidity Infrared Radiometer experiment carried on the Nimbus 4 Meteorological Satellite. The THIR 11.5 and 6.7 micrometer channel montages shown represent the nighttime data (Section 4.1), and the daytime data (Section 4.2), arranged in chronological order. Key latitudes can be read from the superposed grids. Grid points are identified where each swath crosses 60°N, 30°N, EQUATOR, 30°S and 60°S.

Vellum Location Guide overlays, attached to the back of this document, are to be used for general orientation with the data presented in each THIR montage. Proper alignment of the overlay grid is accomplished by matching the grid indices on the equator with the two "T" marks on each montage.

Each THIR montage is provided with a time scale to determine the Universal Time limits required to order processed THIR grid print maps (see p. 57, Nimbus IV User's Guide). The time scale determines the number of minutes from ascending (daytime data) or descending (nighttime data) node time for the interval of data required. To obtain the Universal Time for daytime data, the measured time is to be added to the ascending node time in the northern hemisphere and subtracted in the southern hemisphere. For nighttime data, the measured time is to be subtracted from the descending node time in the northern hemisphere and added in the southern hemisphere. The ascending and descending node times are given in Section 2.

The following alternate procedure also establishes Universal Time limits. Knowing the latitude limits of the study area, the minutes from ascending or descending node can be directly interpolated from Table 4-1. These time values can then be added to or subtracted from node times given in Section 2.

A description of the THIR experiment and instructions for ordering THIR data may be found in the Nimbus IV User's Guide, Section 3.

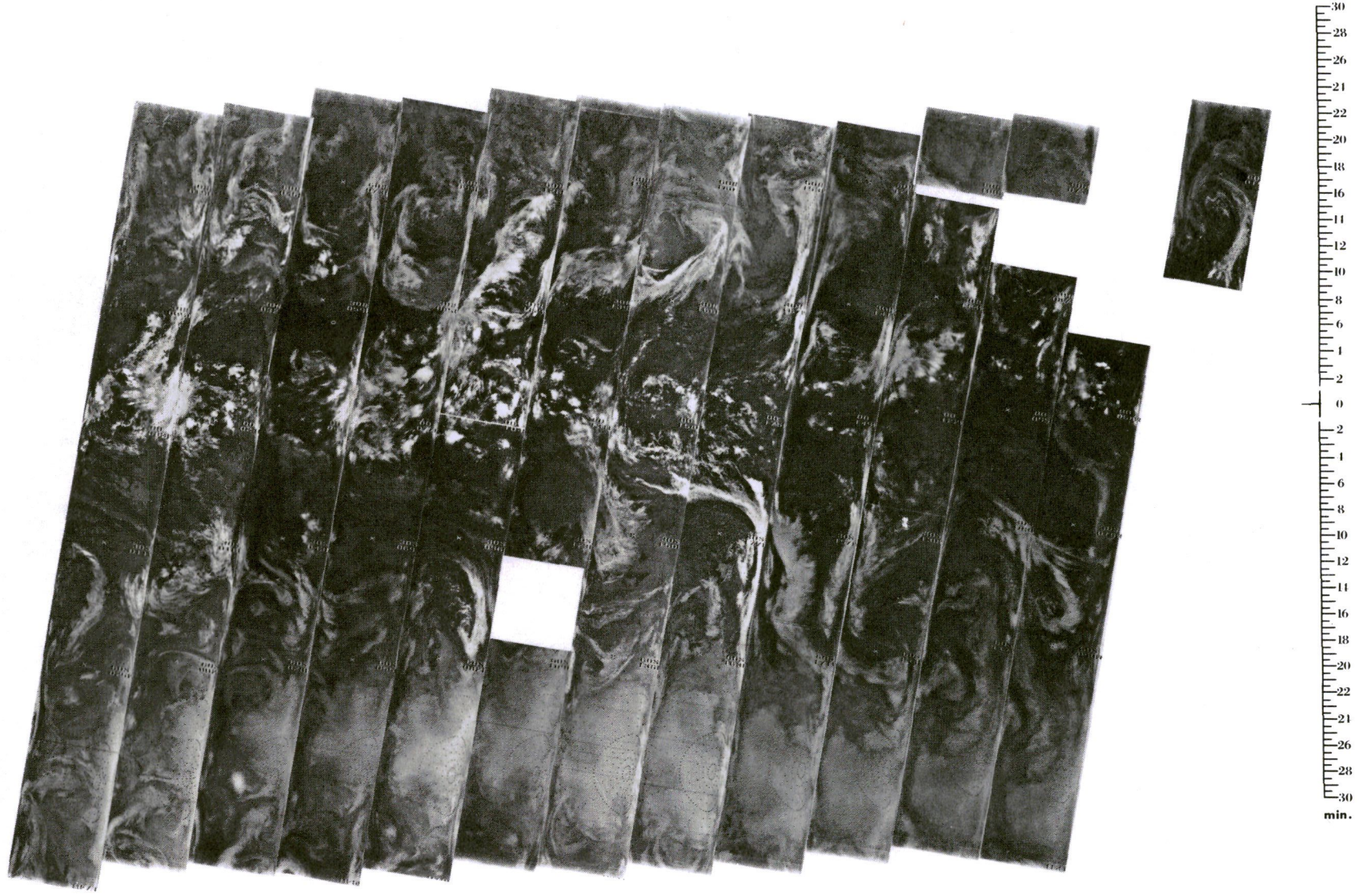
Table 4-1

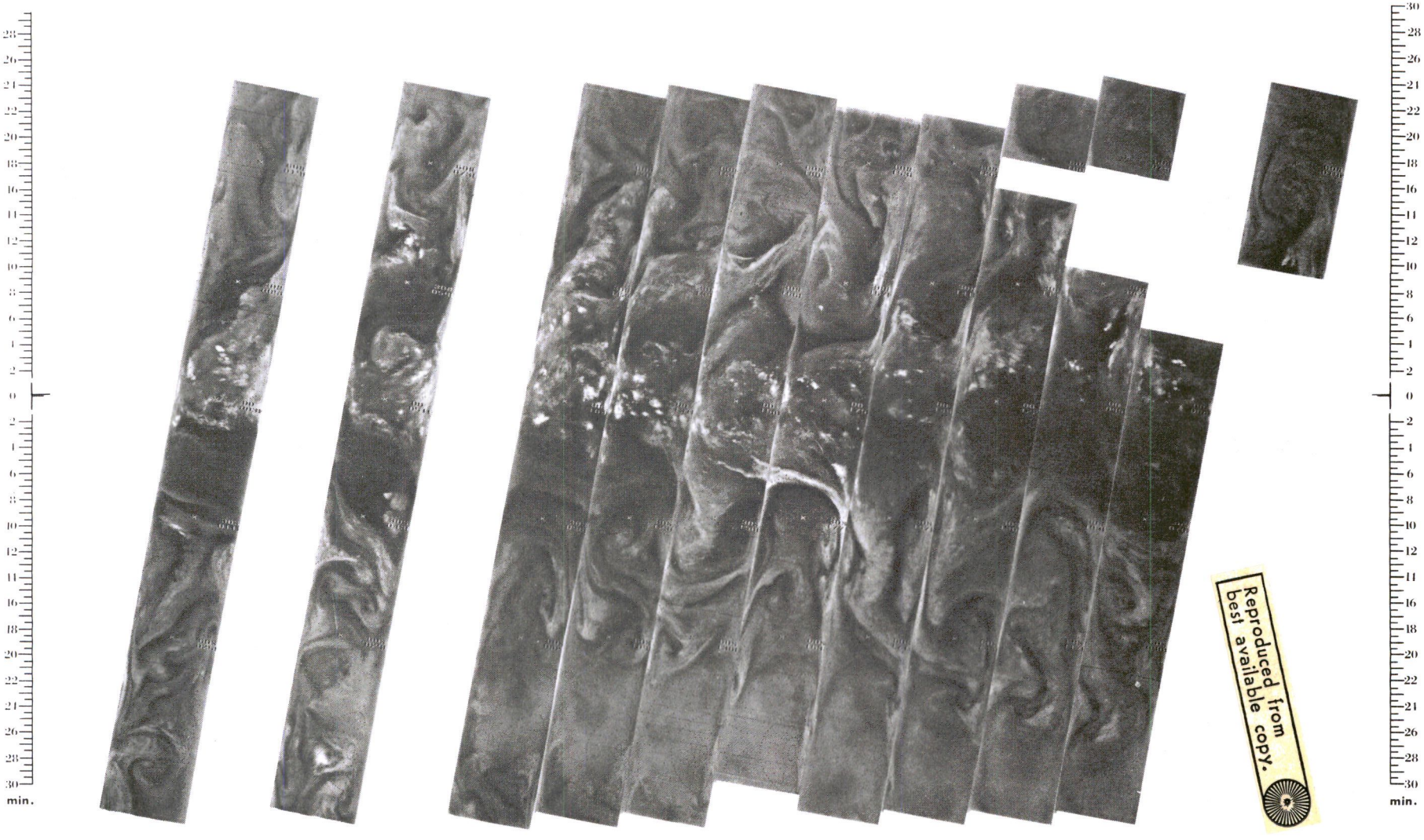
LATITUDE VERSUS MINUTES FROM
ASCENDING OR DESCENDING NODE

Latitude from AN or DN	Minutes and Seconds from AN or DN
0	0:00
5	1:31
10	3:02
15	4:33
20	6:03
25	7:34
30	9:05
35	10:36
40	12:08
45	13:40
50	15:12
55	16:44
60	18:18
65	19:52
70	21:33
75	23:26
78	24:44
80.1	26:49
78	29:00
75	30:09
70	31:51
65	33:35

SECTION 4.1

TEMPERATURE HUMIDITY INFRARED RADIOMETER NIGHTTIME MONTAGES


30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30
min.
613 612 611 610 609 608 607 606 605 604 603 602 601
23 MAY 1970
11.5μm



613 612 611 610 609 608 607 606 605 604 603 602 601

23 MAY 1970

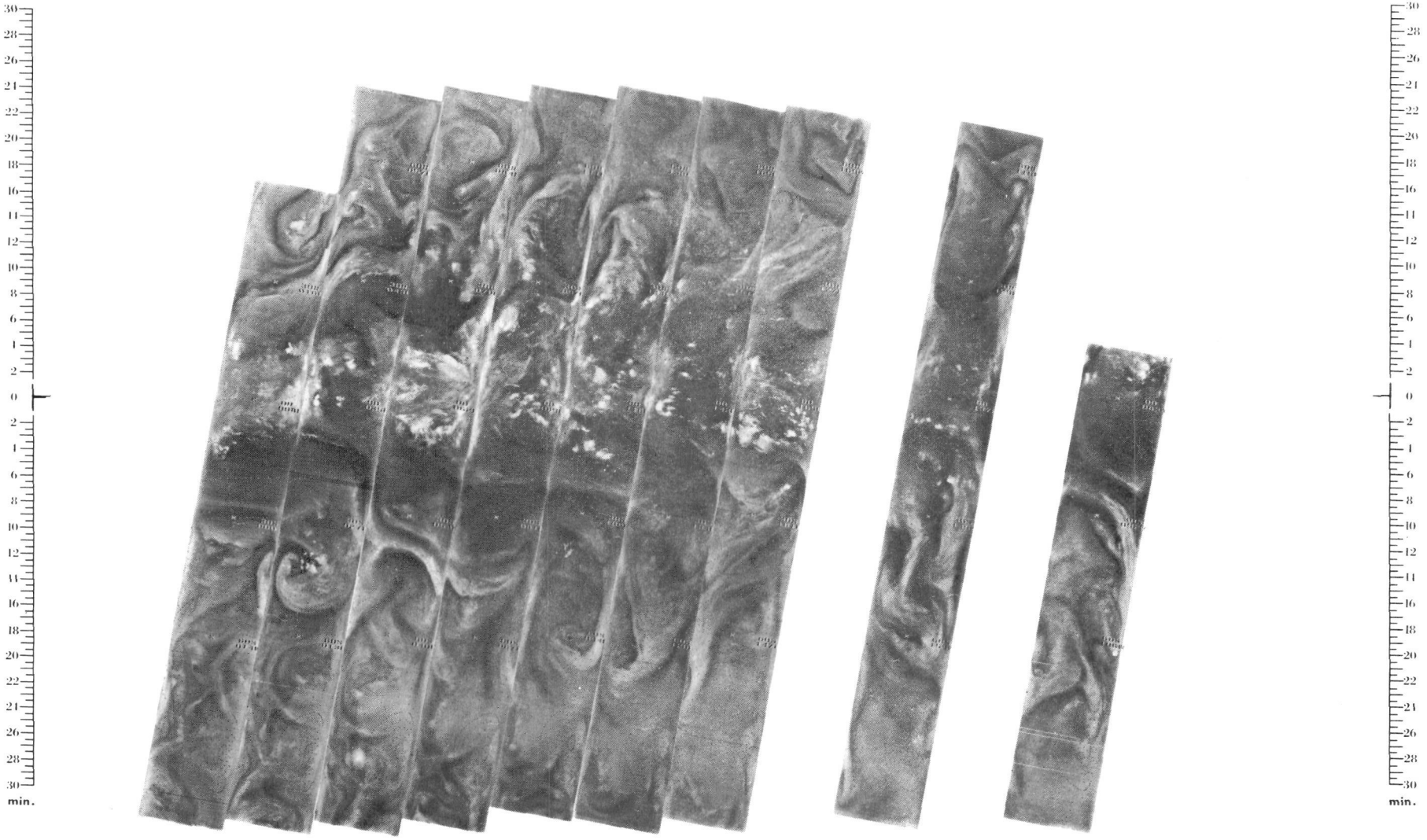
6.7μm



626 625 624 623 622 621 620 619 618 617 616 615 614

24 MAY 1970

11.5μm



626 625 624 623 622 621 620 619 618 617 616 615 614

24 MAY 1970

6.7 μm

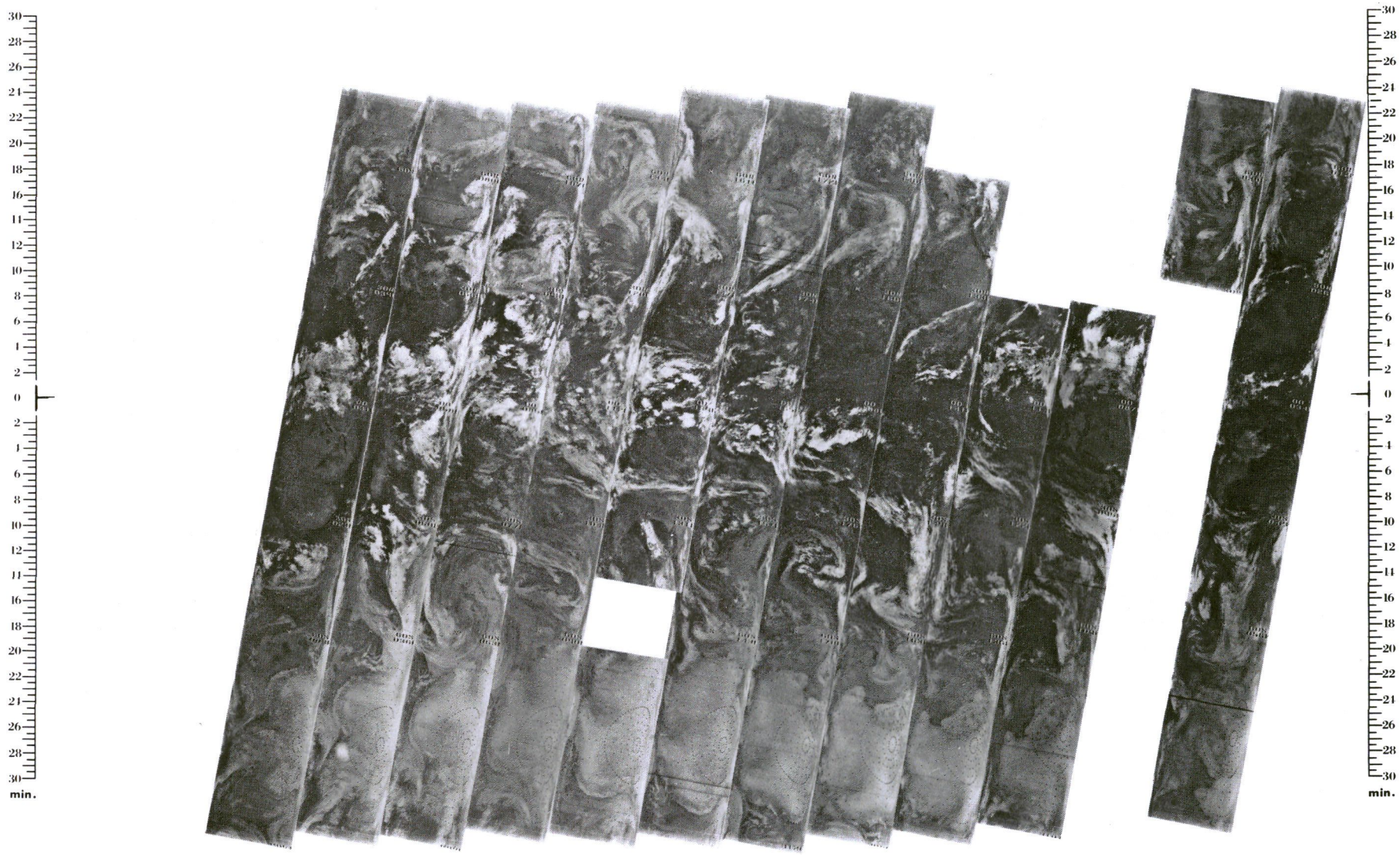


640 639 638 637 636 635 634 633 632 631 630 629 628 627

25 MAY 1970

11.5μm

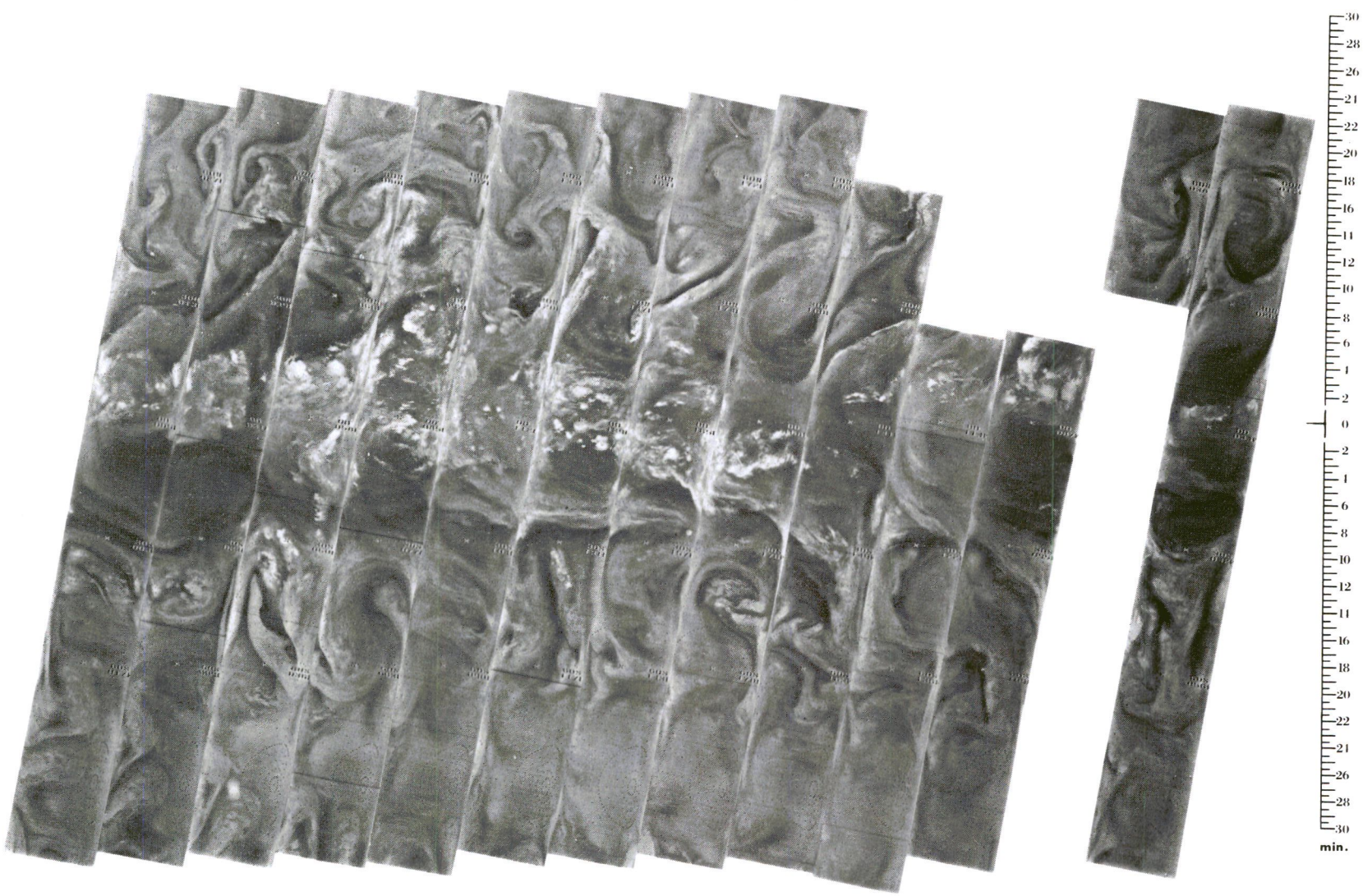

min.
min.
640
639
638
637
636
635
634
633
632
631
630
629
628
627
25 MAY 1970
6.7μm



653 652 651 650 649 648 647 646 645 644 643 642 641

26 MAY 1970

11.5μm



653 652 651 650 649 648 647 646 645 644 643 642 641

26 MAY 1970

6.7μm


min.
min.
667
666
665
664
663
662
661
660
659
658
657
656
655
654
27 MAY 1970
11.5μm



667 666 665 664 663 662 661 660 659 658 657 656 655 654

27 MAY 1970

6.7μm

min.
min.
680
679
678
677
676
675
674
673
672
671
670
669
668
28 MAY 1970
11.5μm



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680 679 678 677 676 675 674 673 672 671 670 669 668

28 MAY 1970

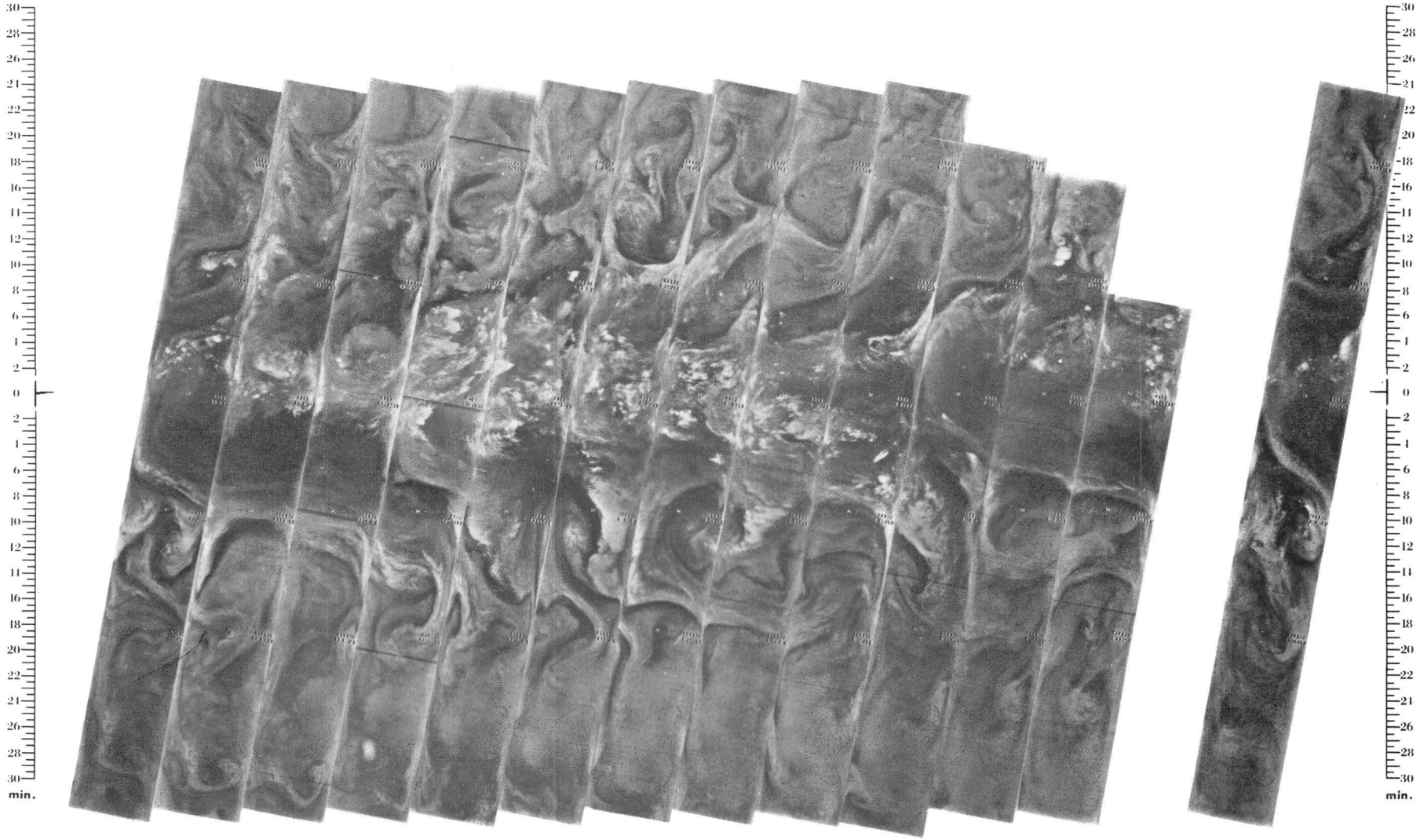
6.7μm



694 693 692 691 690 689 688 687 686 685 684 683 682 681

29 MAY 1970

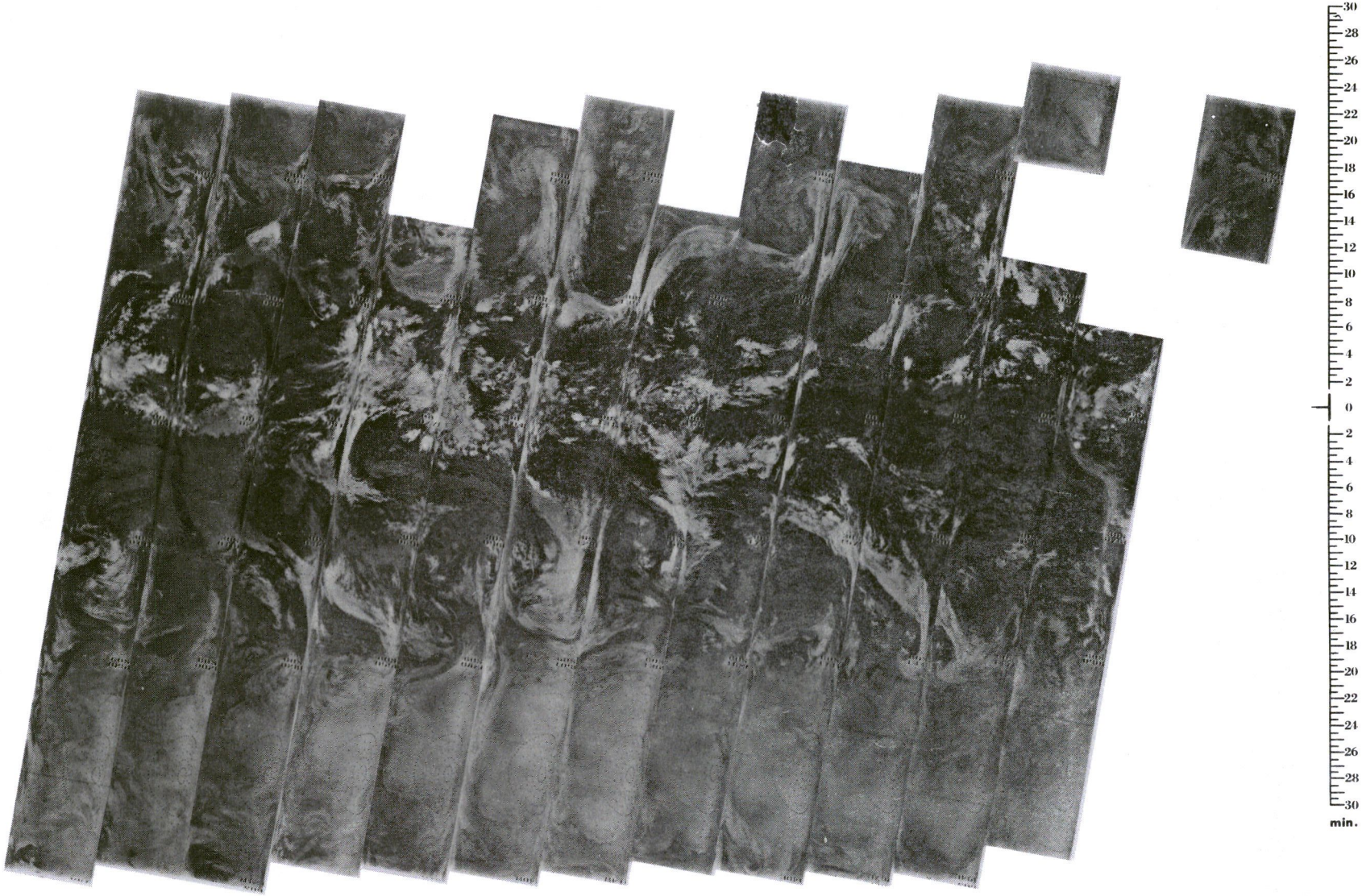
11.5μm



694 693 692 691 690 689 688 687 686 685 684 683 682 681

29 MAY 1970

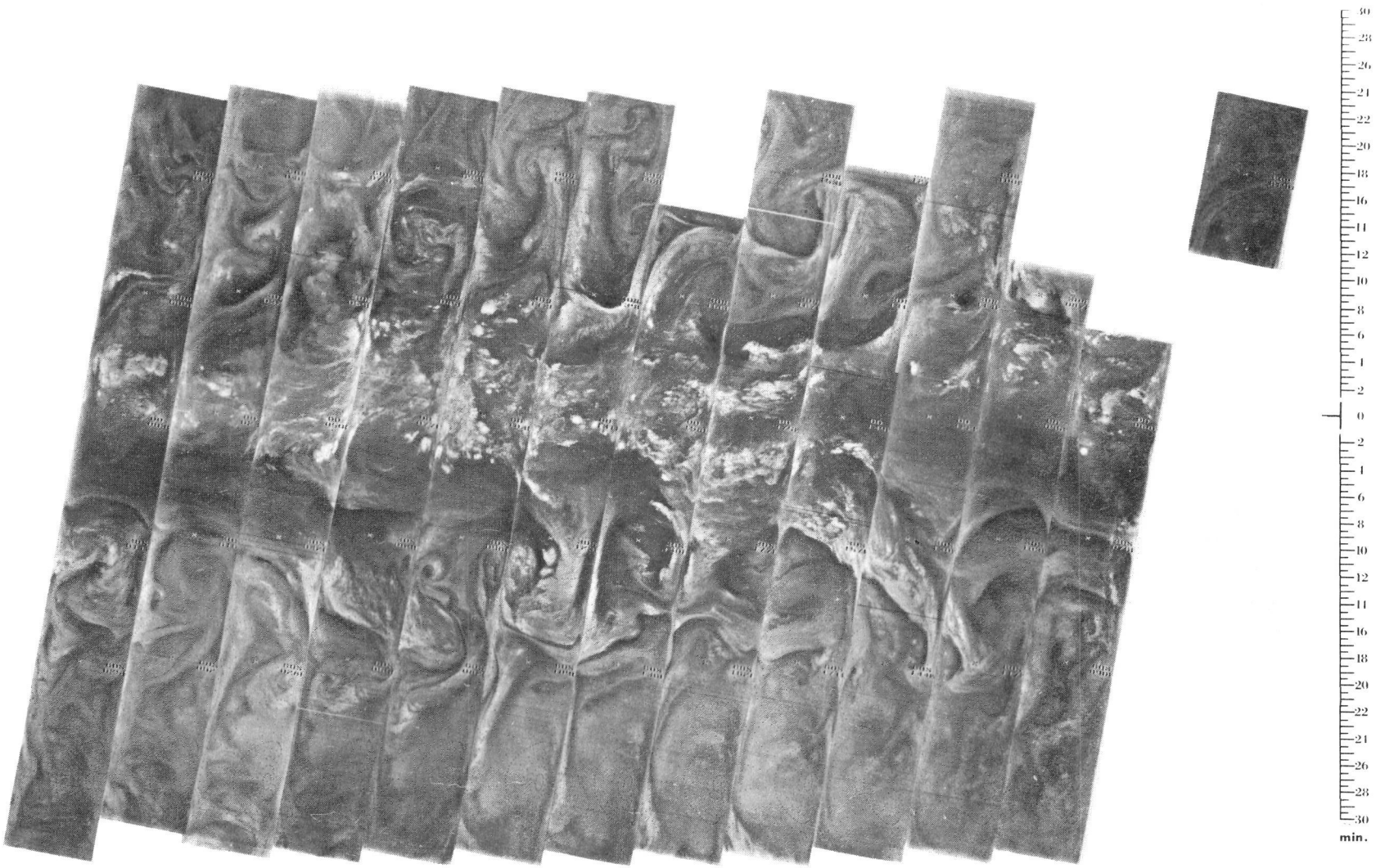
6.7μm



707 706 705 704 703 702 701 700 699 698 697 696 695

30 MAY 1970

11.5μm

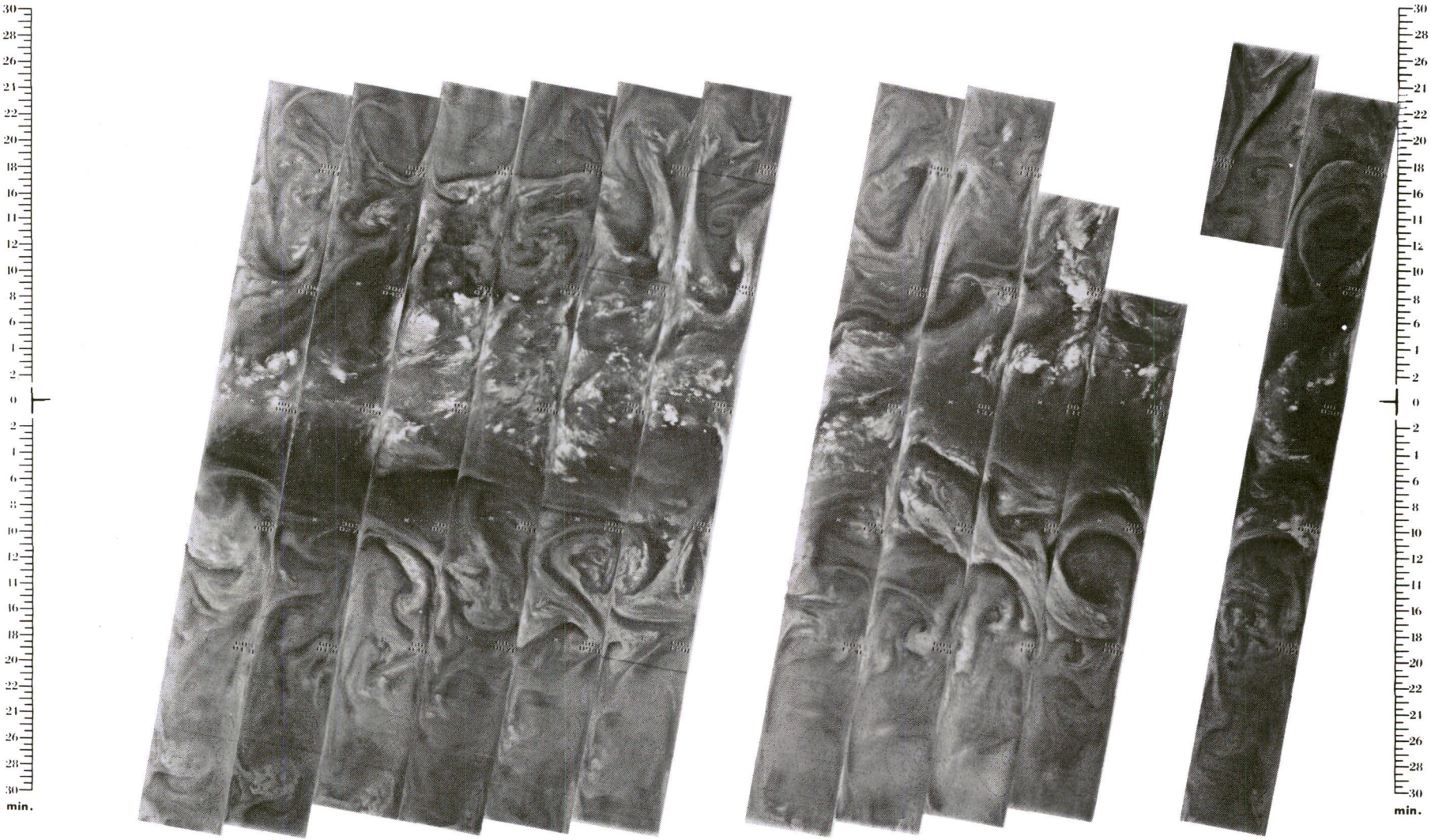


707 706 705 704 703 702 701 700 699 698 697 696 695

30 MAY 1970

6.7μm


720 719 718 717 716 715 714 713 712 711 710 709 708
31 MAY 1970
11.5μm
min.
min.



720 719 718 717 716 715 714 713 712 711 710 709 708

31 MAY 1970

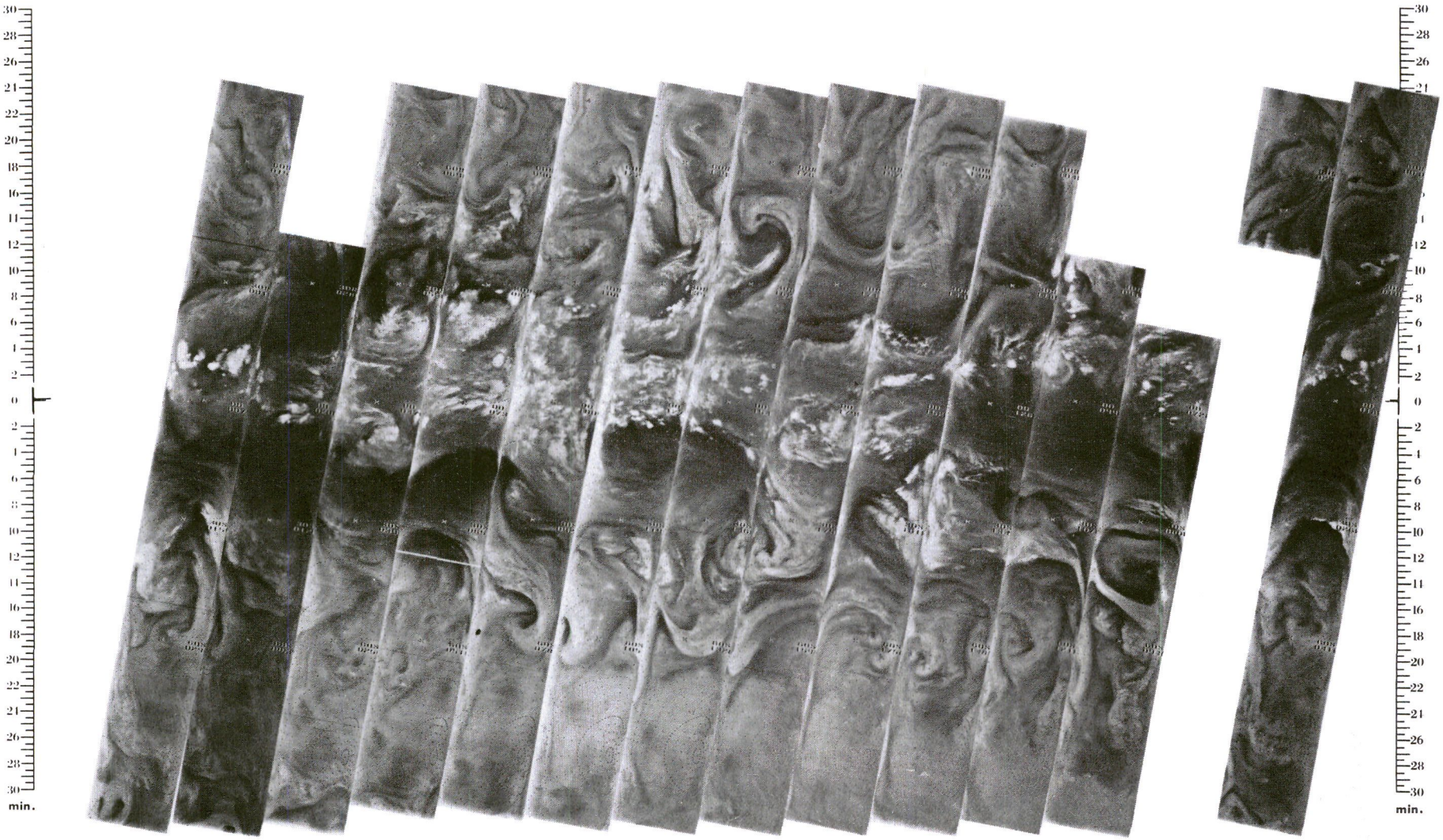
6.7μm



734 733 732 731 730 729 728 727 726 725 724 723 722 721

1 JUNE 1970

11.5μm



1 JUNE 1970

6.7μm



747 746 745 744 743 742 741 740 739 738 737 736 735

2 JUNE 1970

11.5μm



Reproduced from best available copy.

747 746 745 744 743 742 741 740 739 738 737 736 735

2 JUNE 1970

6.7μm

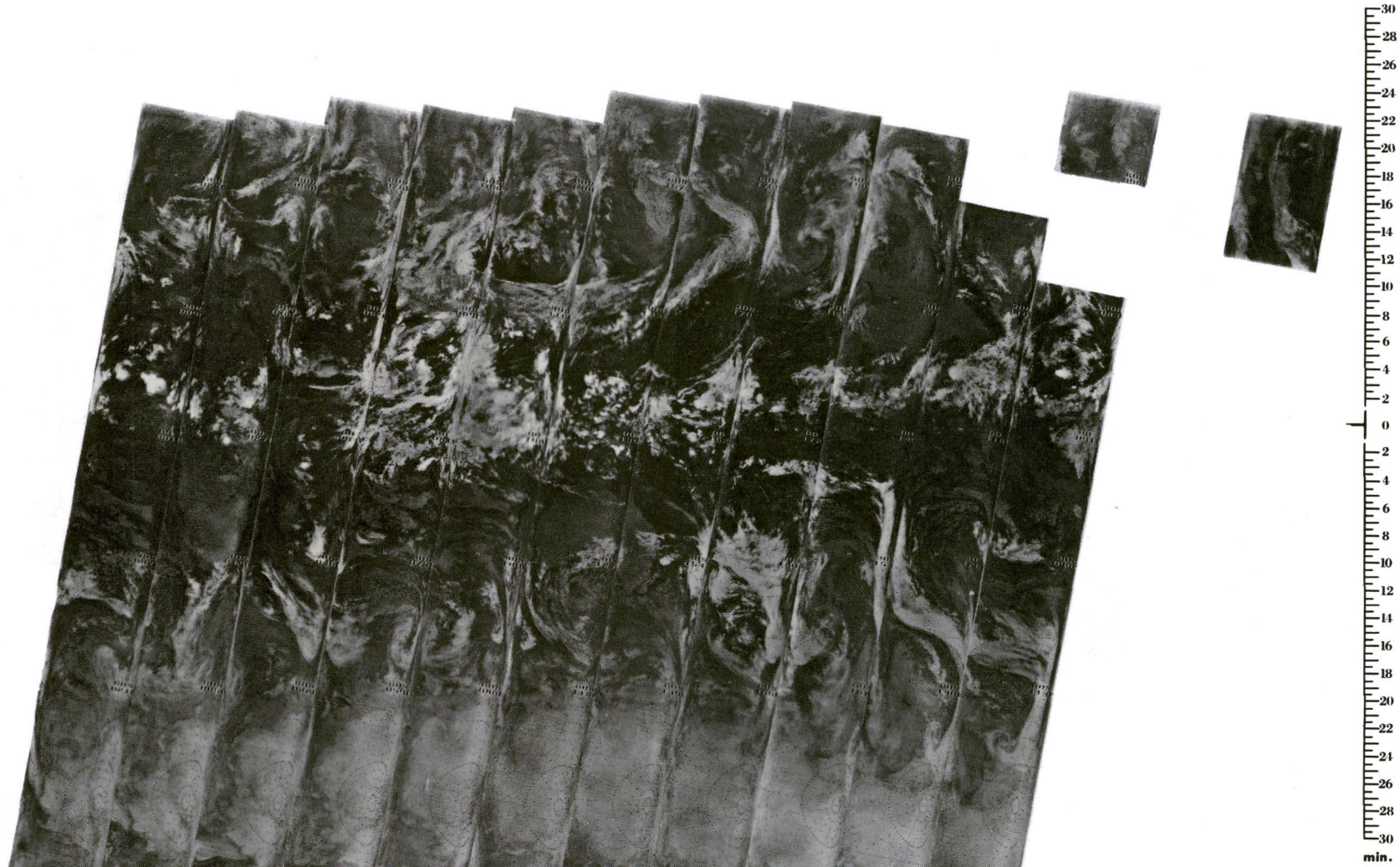

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30
min.
761 760 759 758 757 756 755 754 753 752 751 750 749 748
3 JUNE 1970
11.5μm



761 760 759 758 757 756 755 754 753 752 751 750 749 748

3 JUNE 1970

6.7μm



4 JUNE 1970

11.5μm



774 773 772 771 770 769 768 767 766 765 764 763 762

4 JUNE 1970

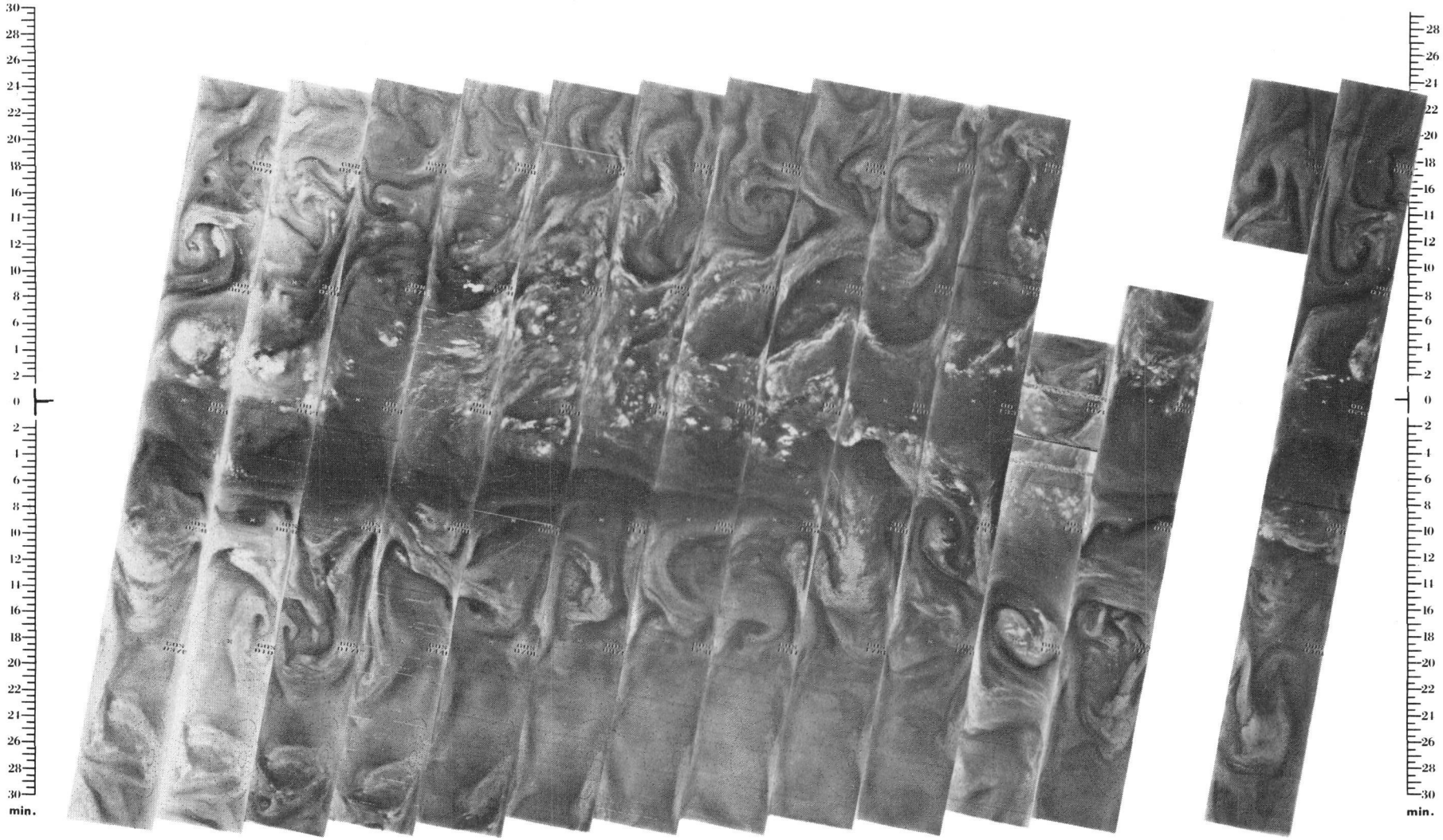
6.7μm



788 787 786 785 784 783 782 781 780 779 778 777 776 775

5 JUNE 1970

11.5μm



788 787 786 785 784 783 782 781 780 779 778 777 776 775

5 JUNE 1970

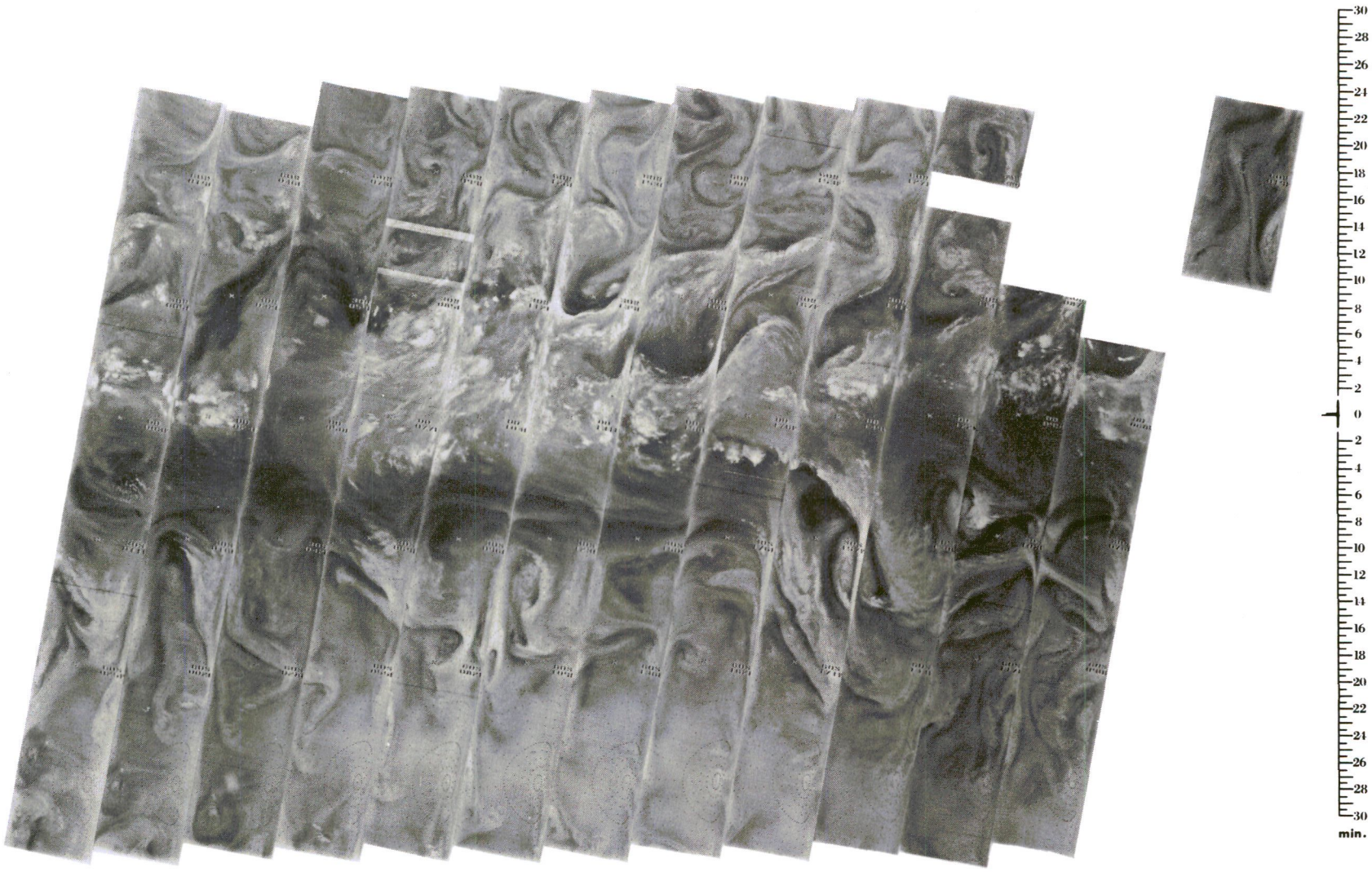
6.7μm



801 800 799 798 797 796 795 794 793 792 791 790 789

6 JUNE 1970

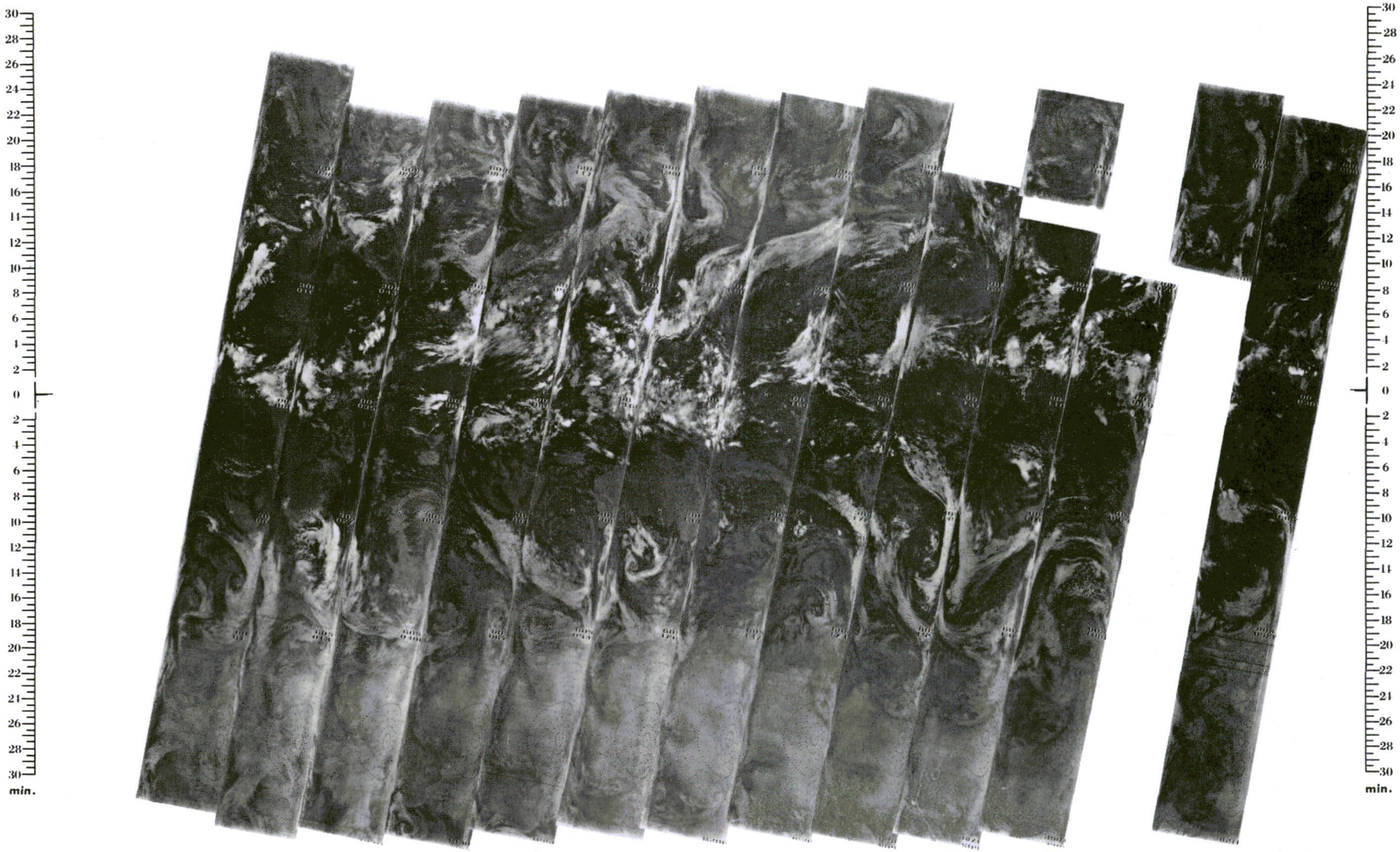
11.5μm

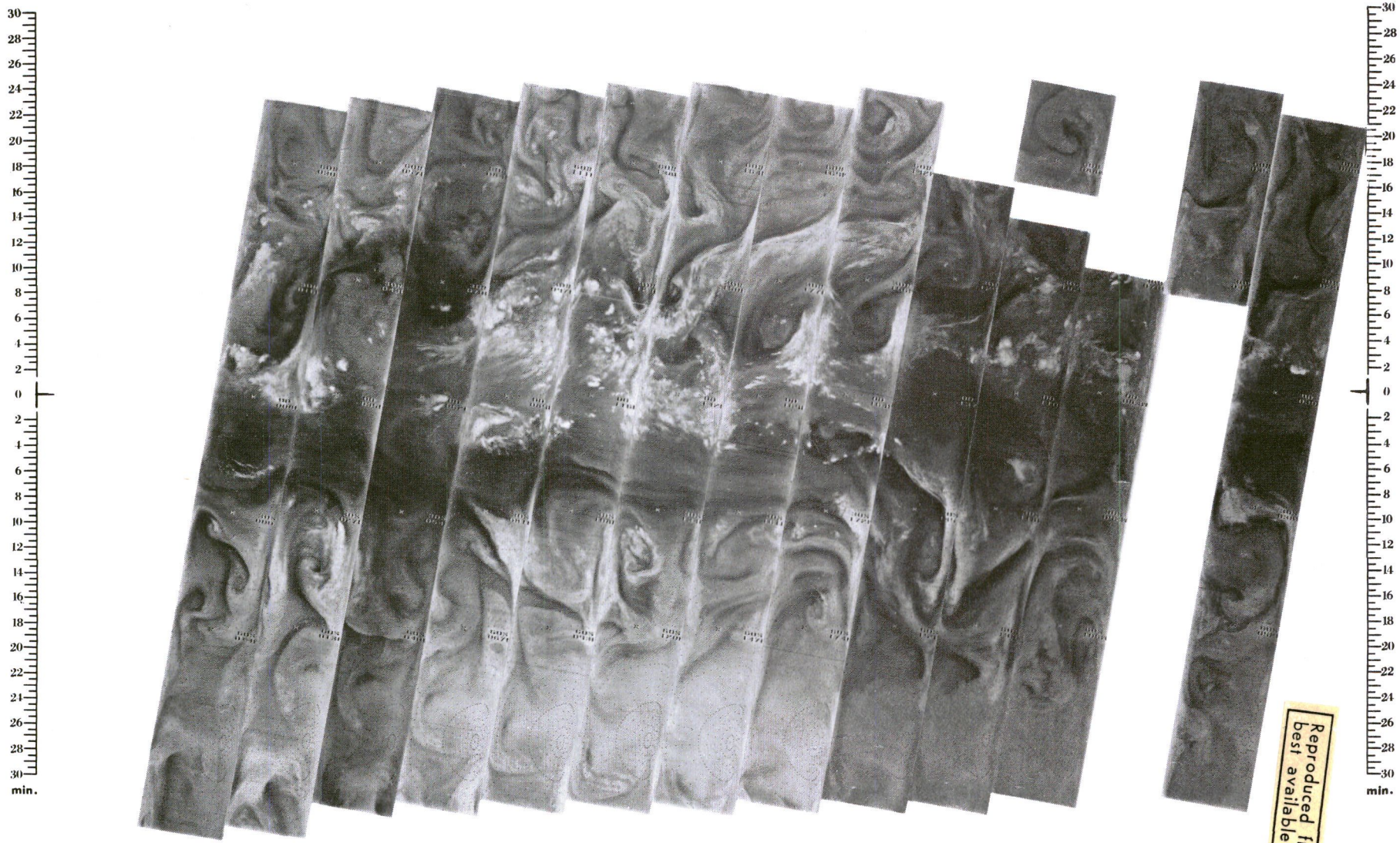


801 800 799 798 797 796 795 794 793 792 791 790 789

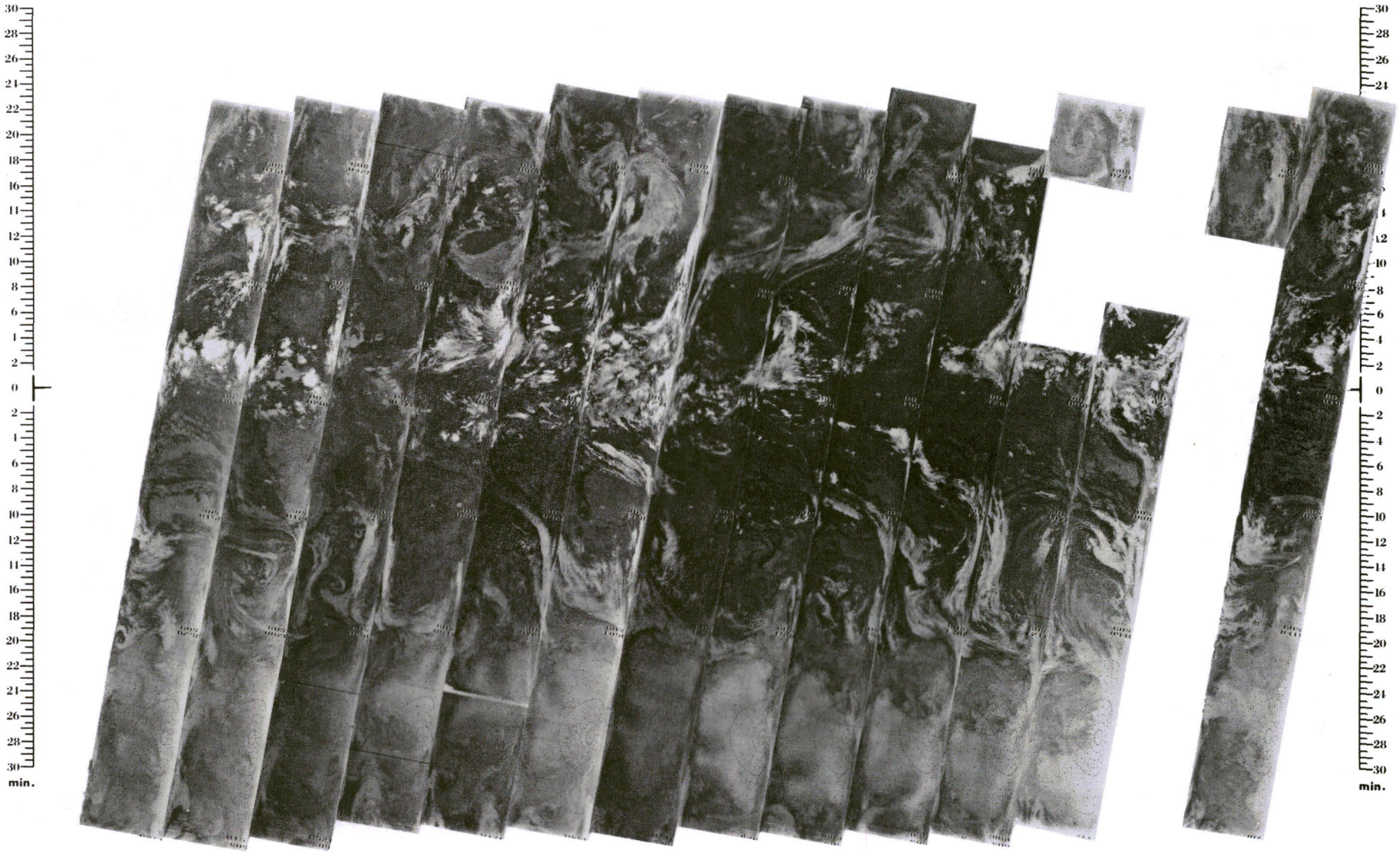
6 JUNE 1970

6.7μm


30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30
min.
814 813 812 811 810 809 808 807 806 805 804 803 802
7 JUNE 1970
11.5μm



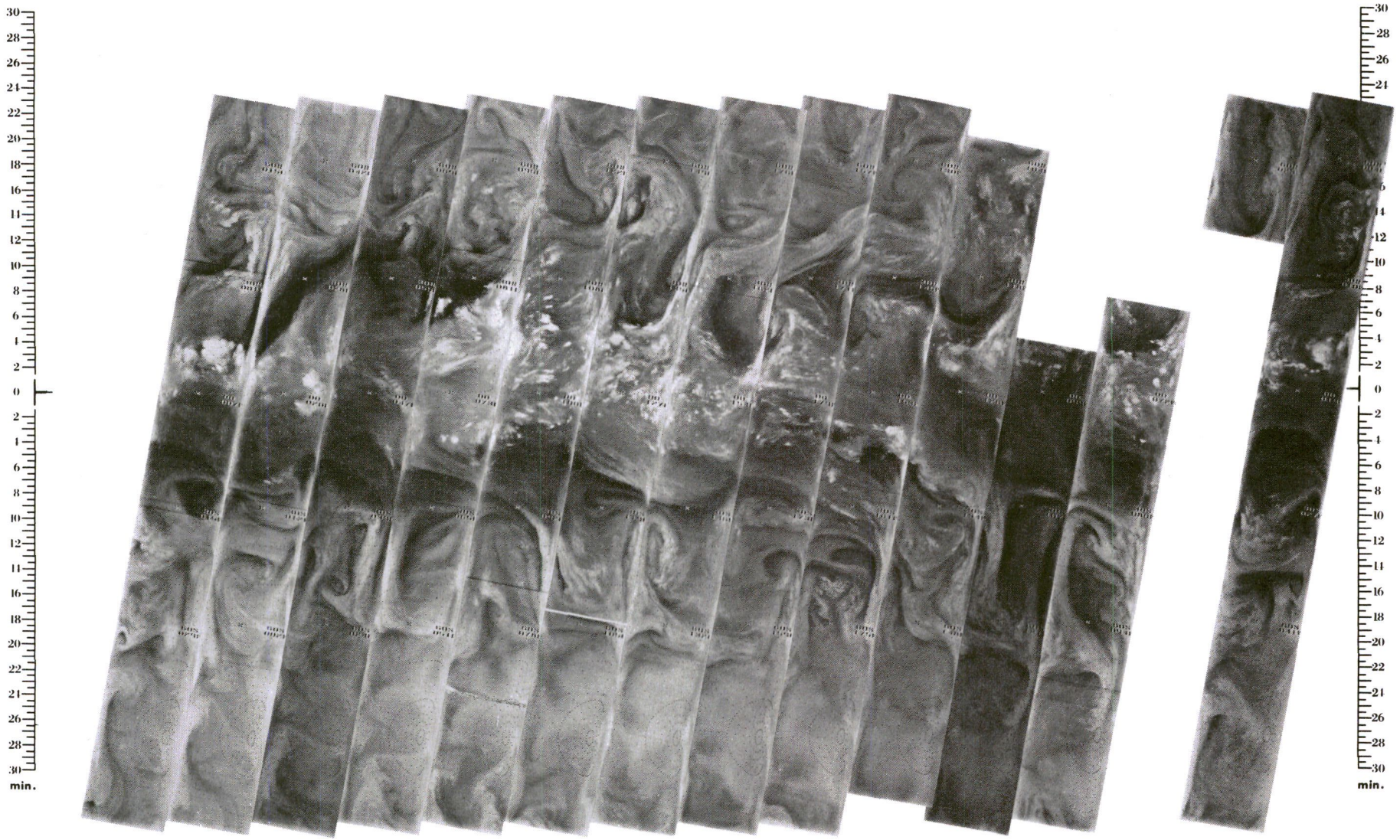
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828 827 826 825 824 823 822 821 820 819 818 817 816 815

8 JUNE 1970

11.5μm



828 827 826 825 824 823 822 821 820 819 818 817 816 815

8 JUNE 1970

6.7μm

841
840
839
838
837
836
835
834
833
832
831
830
829
9 JUNE 1970
11.5μm
min.
min.



841 840 839 838 837 836 835 834 833 832 831 830 829

9 JUNE 1970

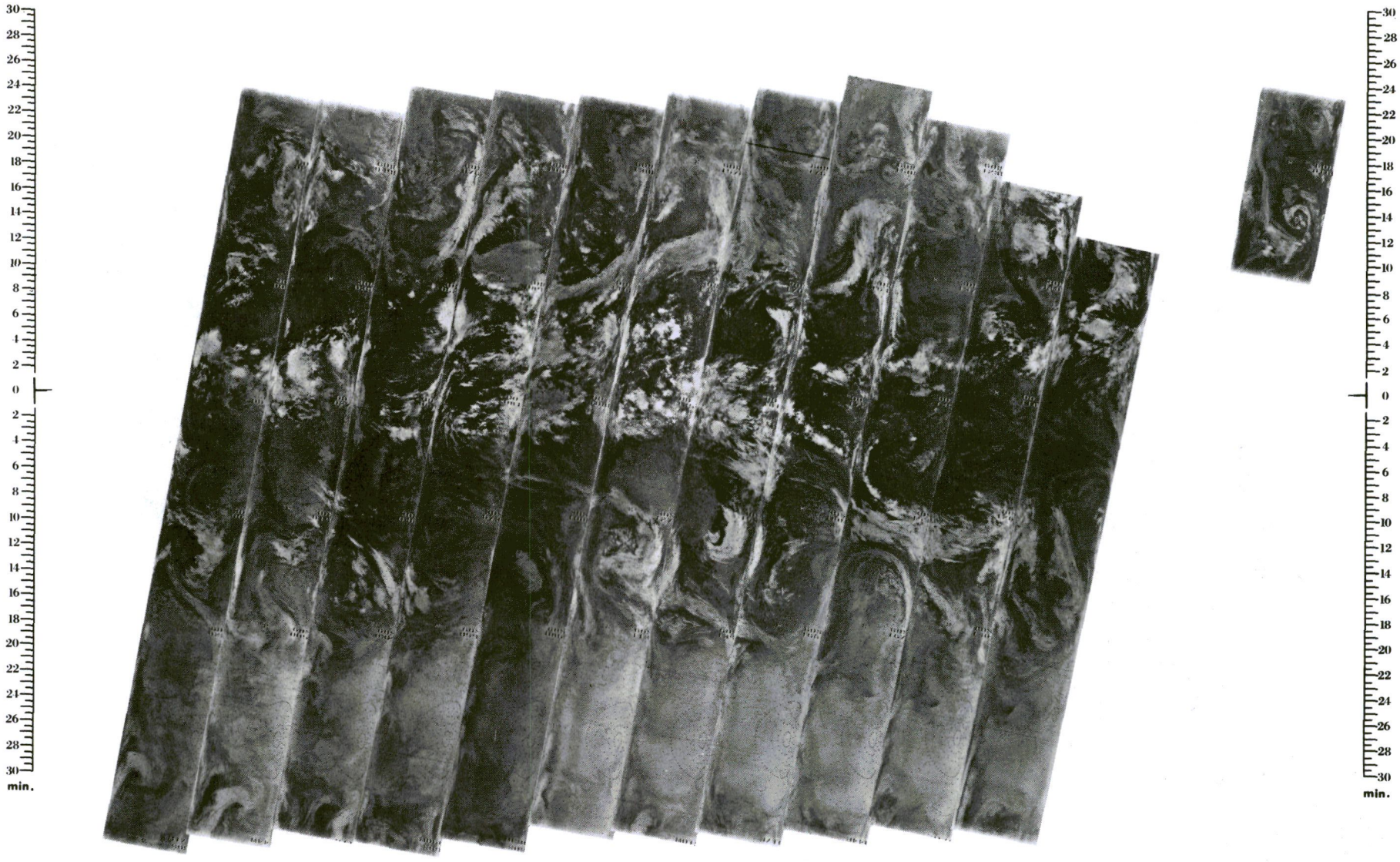
6.7μm



10 JUNE 1970

11.5μm

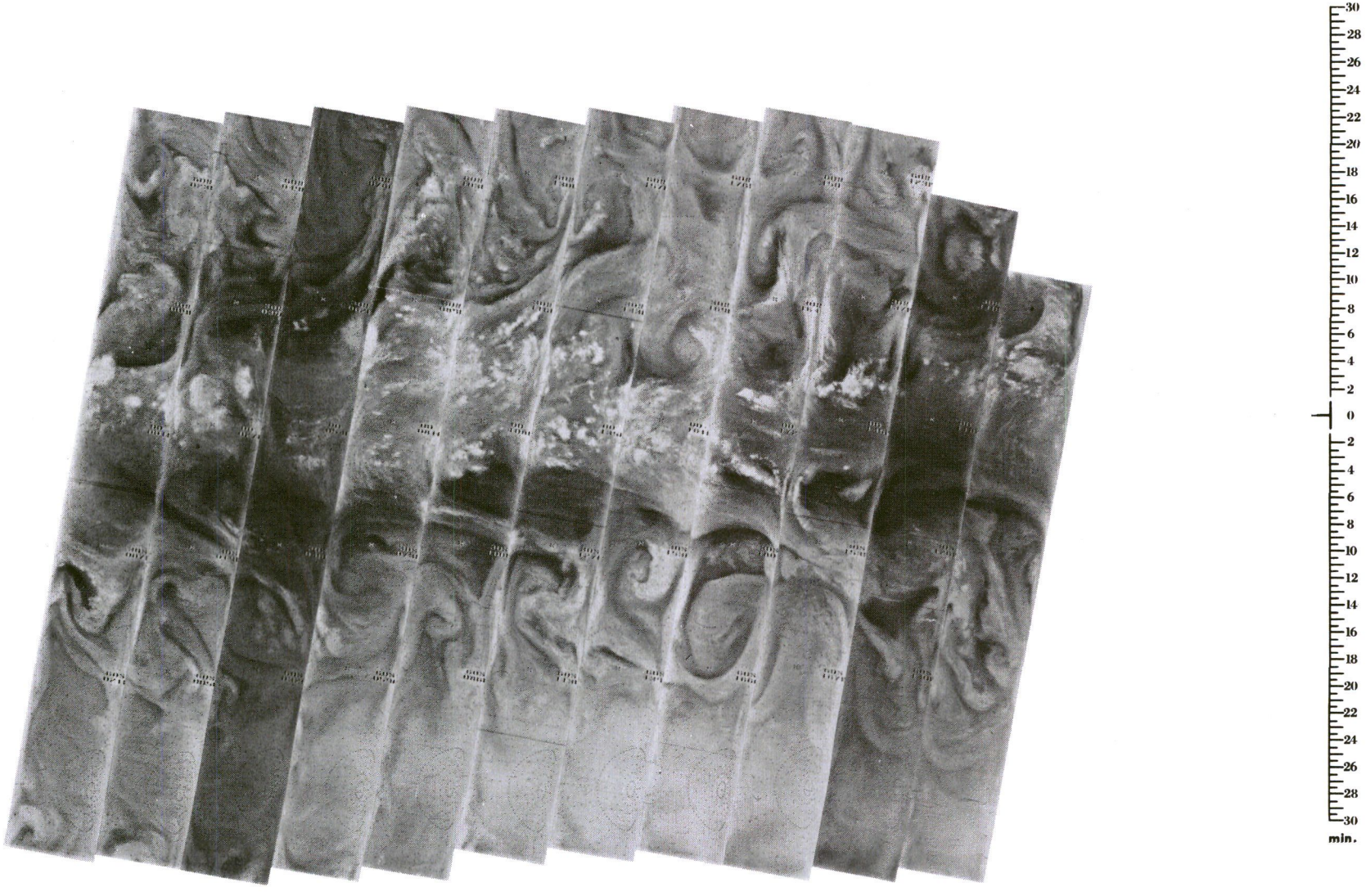

min.
min.
855 854 853 852 851 850 849 848 847 846 845 844 843 842
10 JUNE 1970
6.7μm



868 867 866 865 864 863 862 861 860 859 858 857 856

11 JUNE 1970

11.5μm



868 867 866 865 864 863 862 861 860 859 858 857 856

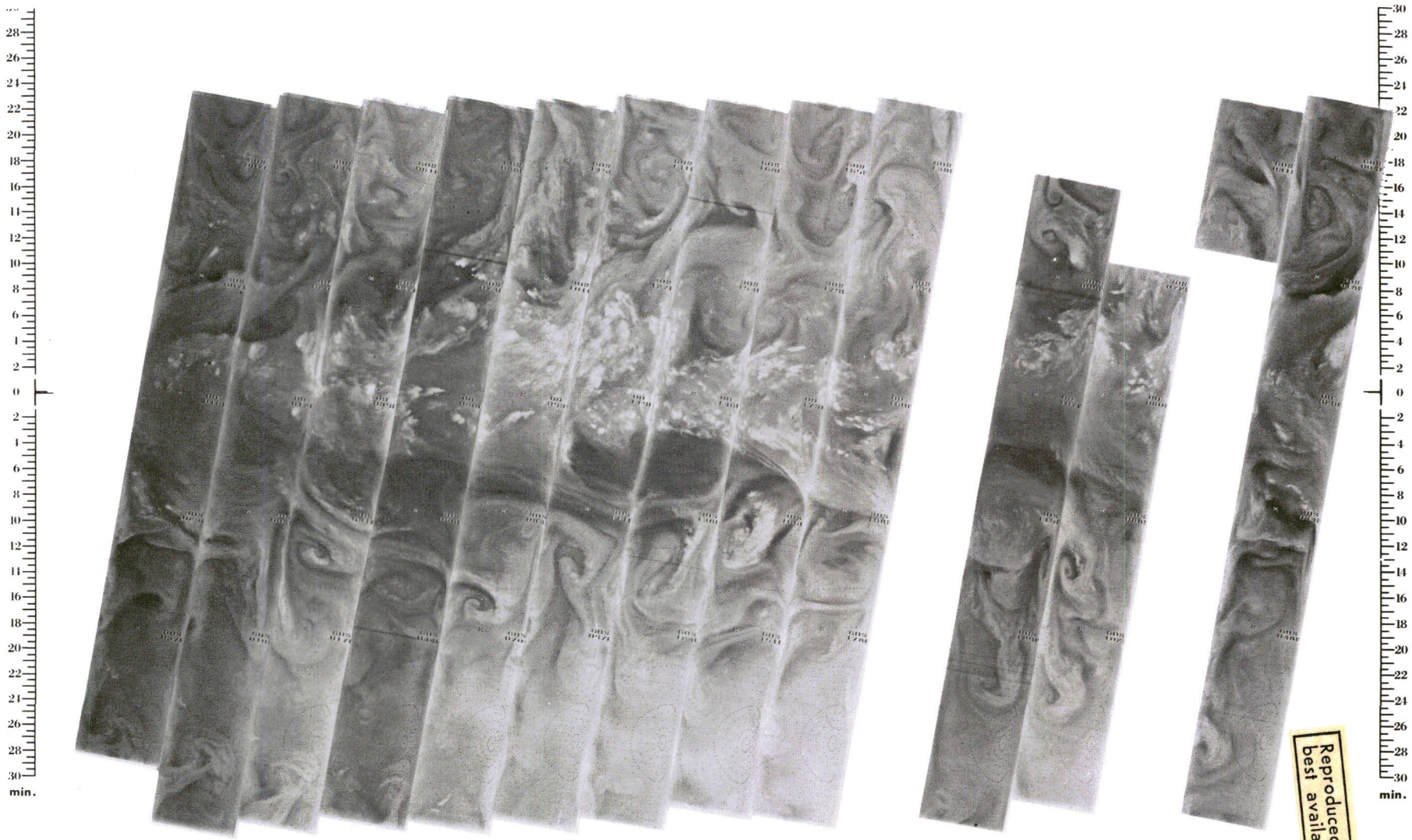
11 JUNE 1970

6.7μm



12 JUNE 1970

11.5μm



Reproduced from best available copy.

12 JUNE 1970

6.7μm


min.
min.
895 894 893 892 891 890 889 888 887 886 885 884 883
13 JUNE 1970
11.5μm



895 894 893 892 891 890 889 888 887 886 885 884 883

13 JUNE 1970

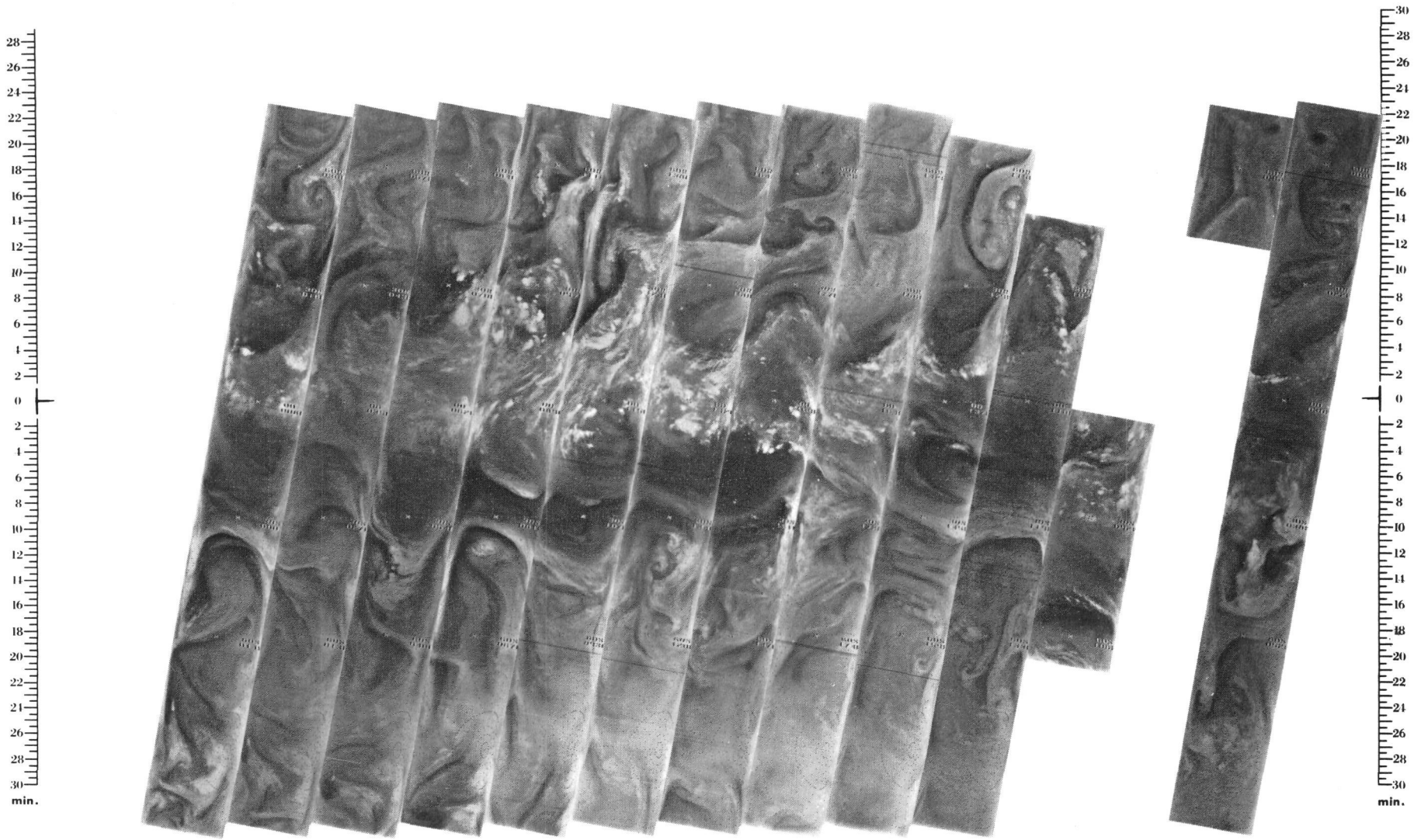
6.7μm



908 907 906 905 904 903 902 901 900 899 898 897 896

14 JUNE 1970

11.5μm



908 907 906 905 904 903 902 901 900 899 898 897 896

14 JUNE 1970

6.7μm



922 921 920 919 918 917 916 915 914 913 912 911 910 909

15 JUNE 1970

11.5μm



922 921 920 919 918 917 916 915 914 913 912 911 910 909

15 JUNE 1970

6.7μm



935 934 933 932 931 930 929 928 927 926 925 924 923

16 JUNE 1970

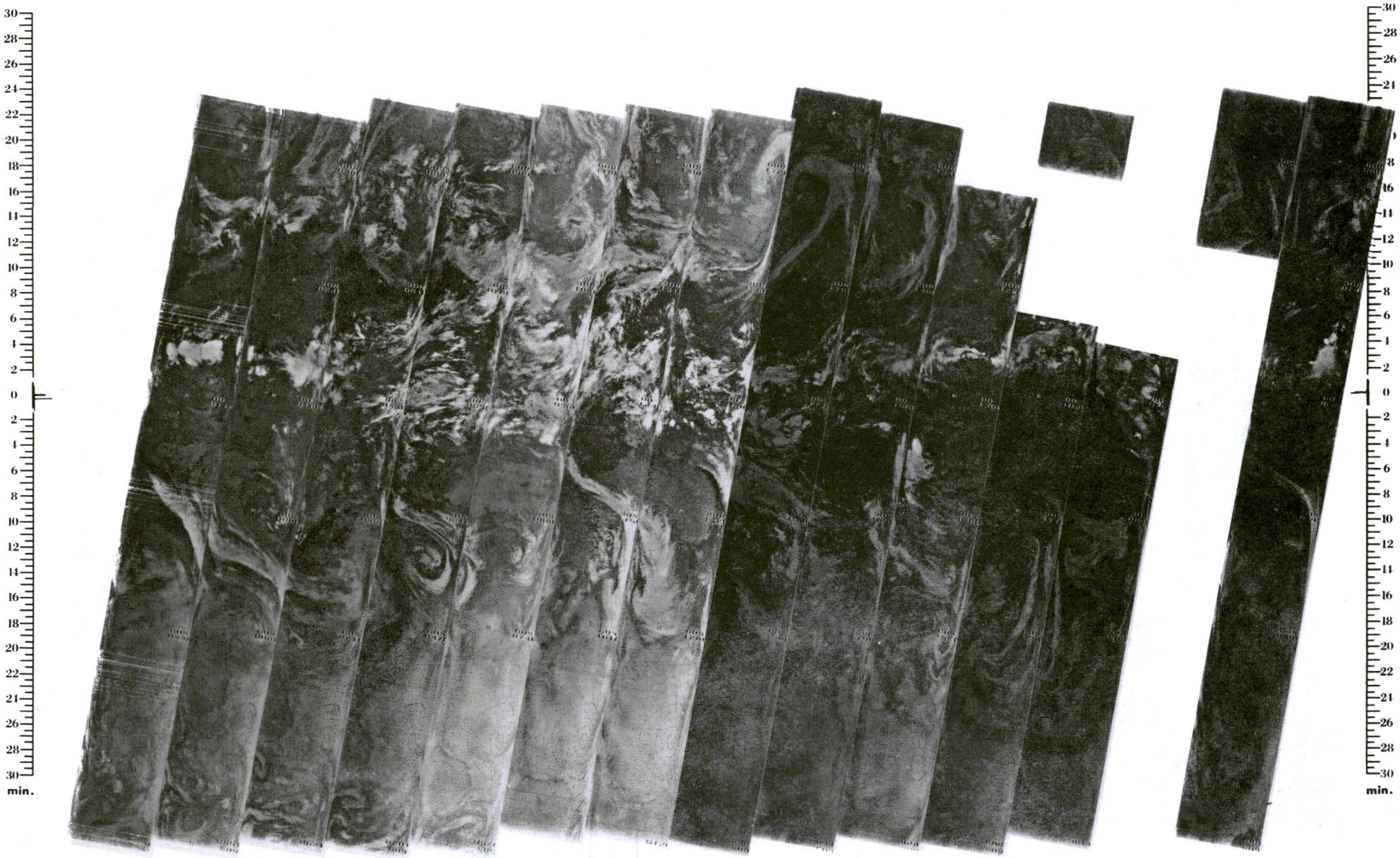
11.5μm



935 934 933 932 931 930 929 928 927 926 925 924 923

16 JUNE 1970

6.7μm



949 948 947 946 945 944 943 942 941 940 939 938 937 936

17 JUNE 1970

11.5μm



949 948 947 946 945 944 943 942 941 940 939 938 937 936

17 JUNE 1970

6.7μm

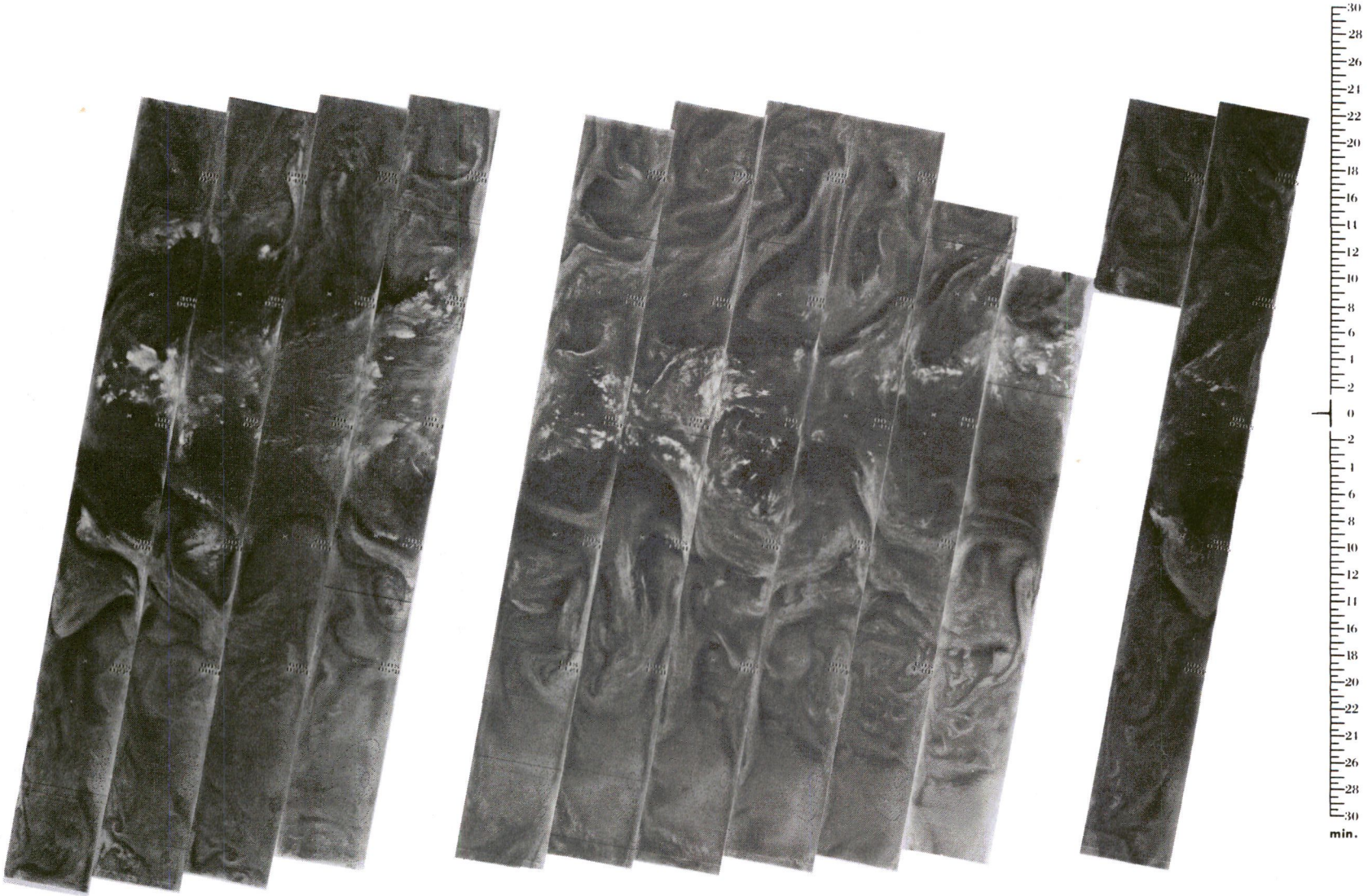
Reproduced from best available copy.



962 961 960 959 958 957 956 955 954 953 952 951 950

18 JUNE 1970

11.5μm



962 961 960 959 958 957 956 955 954 953 952 951 950

18 JUNE 1970

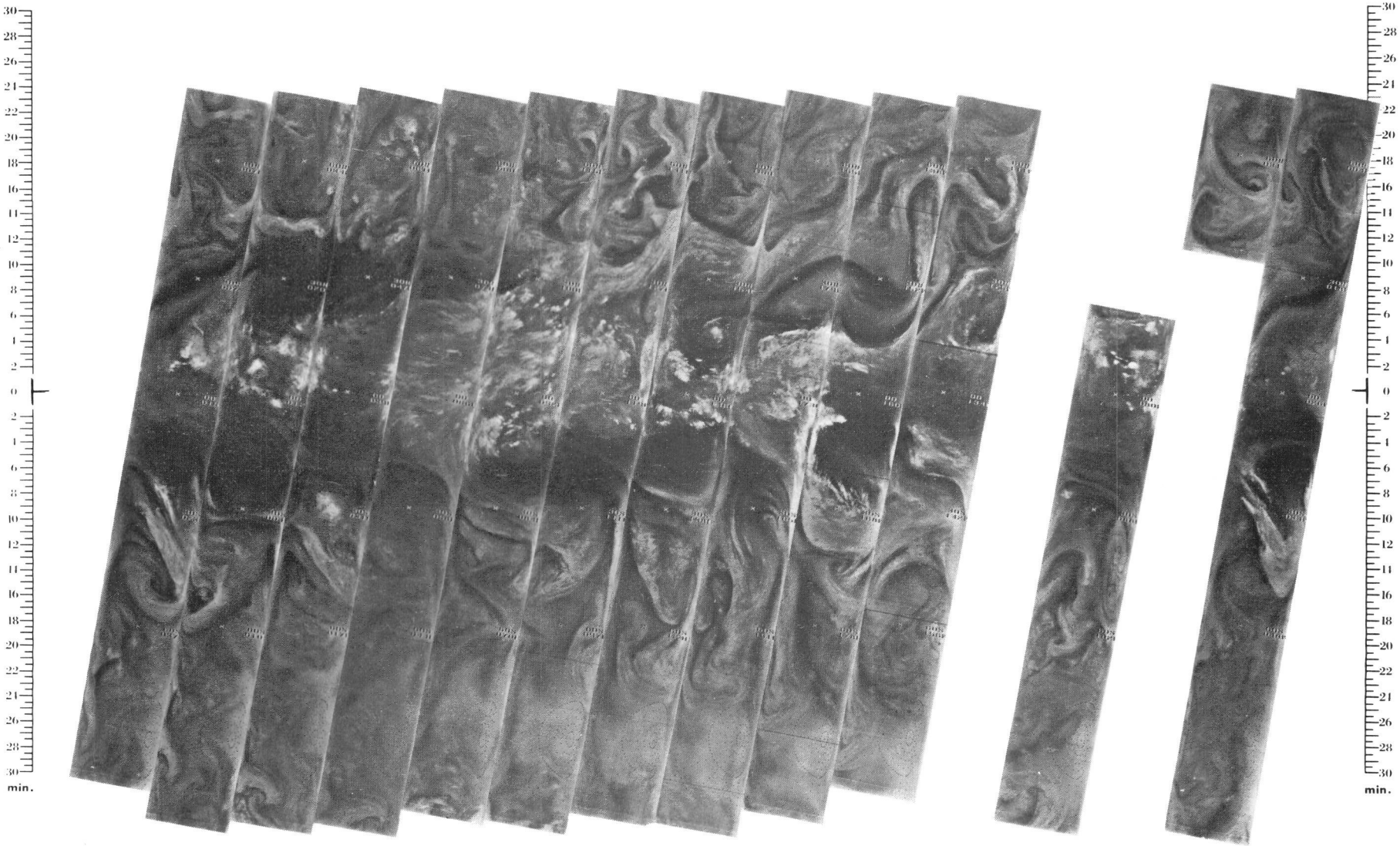
6.7μm



976 975 974 973 972 971 970 969 968 967 966 965 964 963

19 JUNE 1970

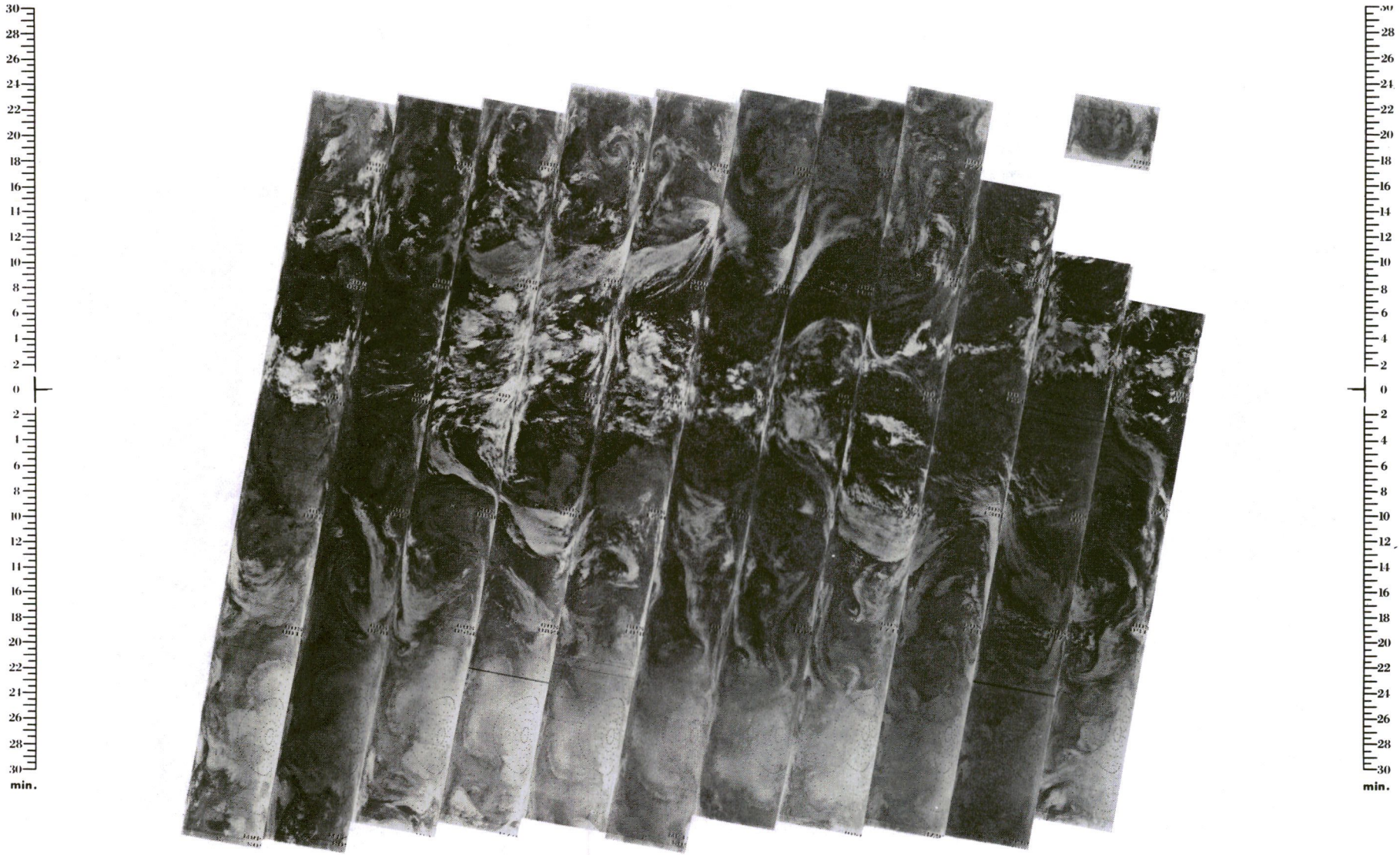
11.5μm

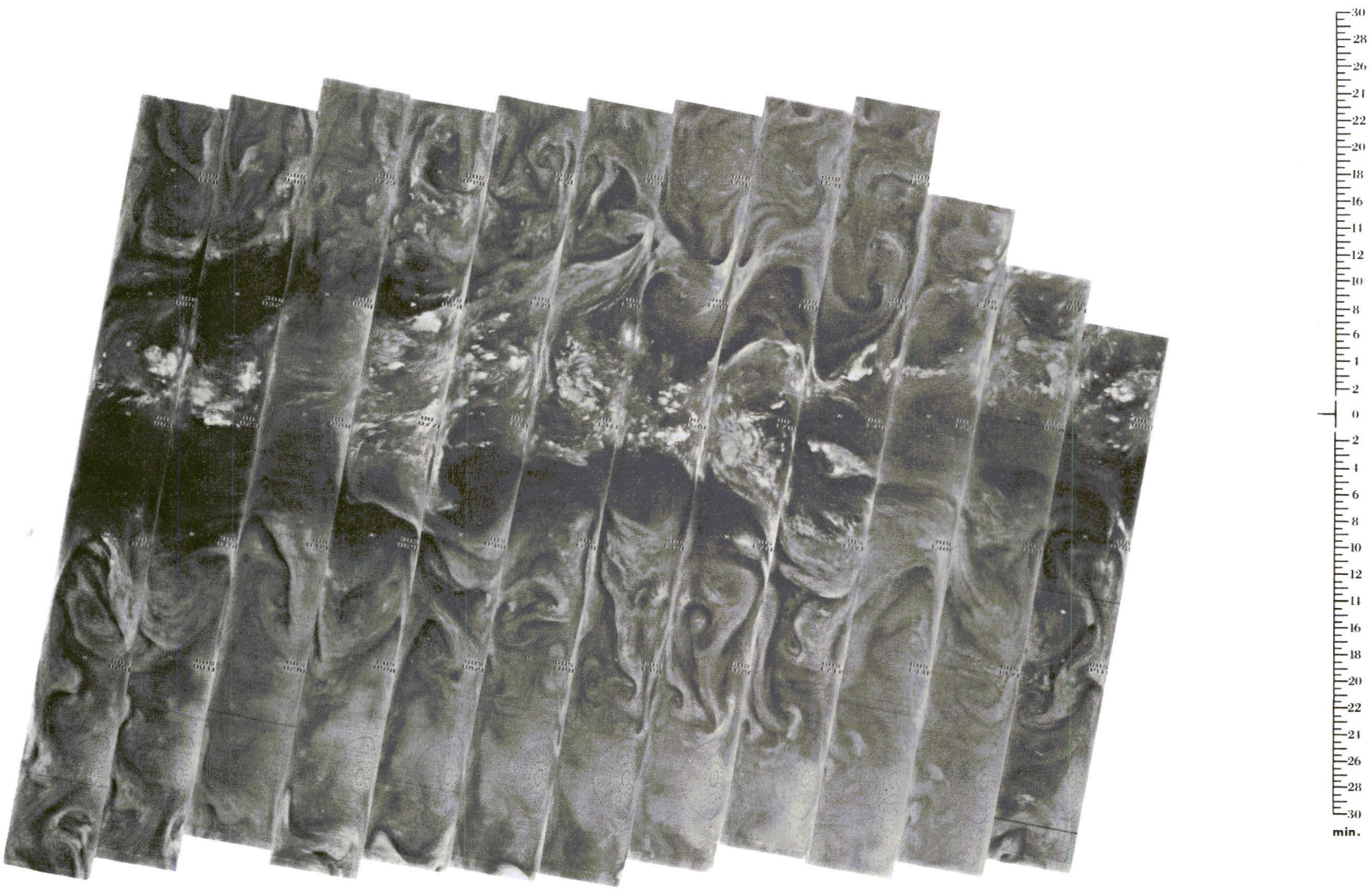


976 975 974 973 972 971 970 969 968 967 966 965 964 963

19 JUNE 1970

6.7μm

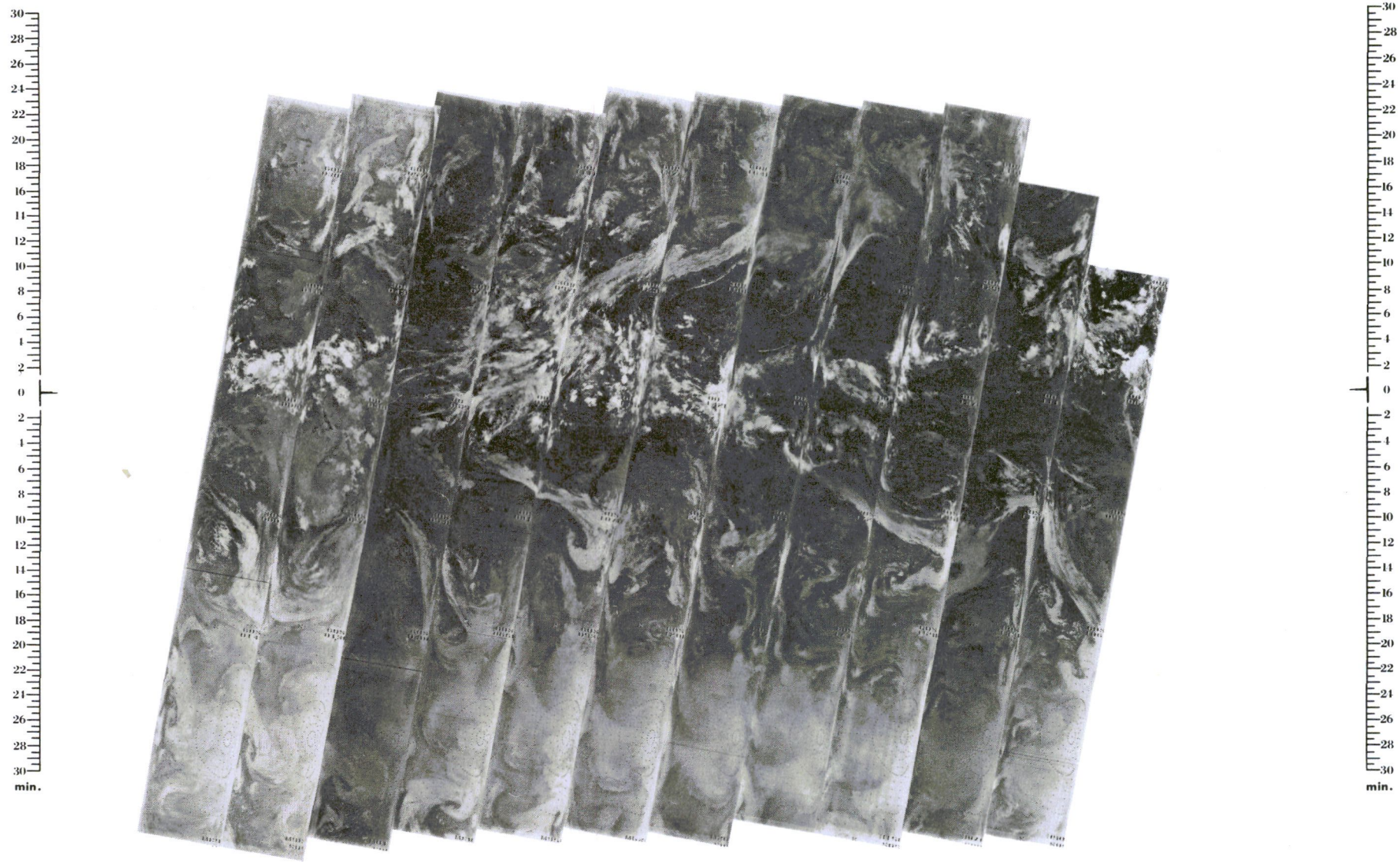

min.
min.
989
988
987
986
985
984
983
982
981
980
979
978
977
20 JUNE 1970
11.5μm

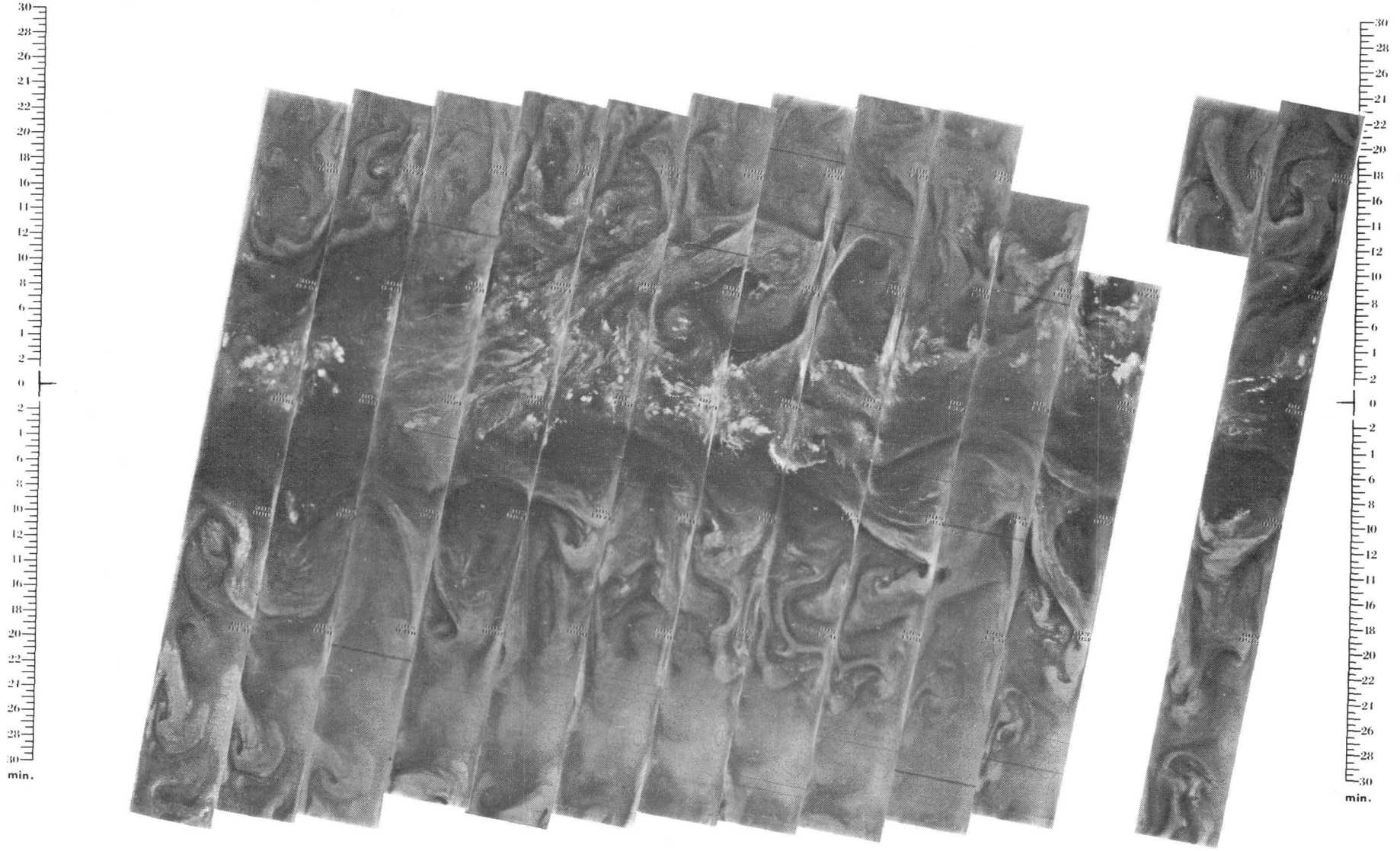


989 988 987 986 985 984 983 982 981 980 979 978 977

20 JUNE 1970

6.7μm


30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30
min.
30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30
min.
1002 1001 1000 999 998 997 996 995 994 993 992 991 990
21 JUNE 1970
11.5μm



1002 1001 1000 999 998 997 996 995 994 993 992 991 990

21 JUNE 1970

6.7μm



1016 1015 1014 1013 1012 1011 1010 1009 1008 1007 1006 1005 1004 1003

22 JUNE 1970

11.5μm

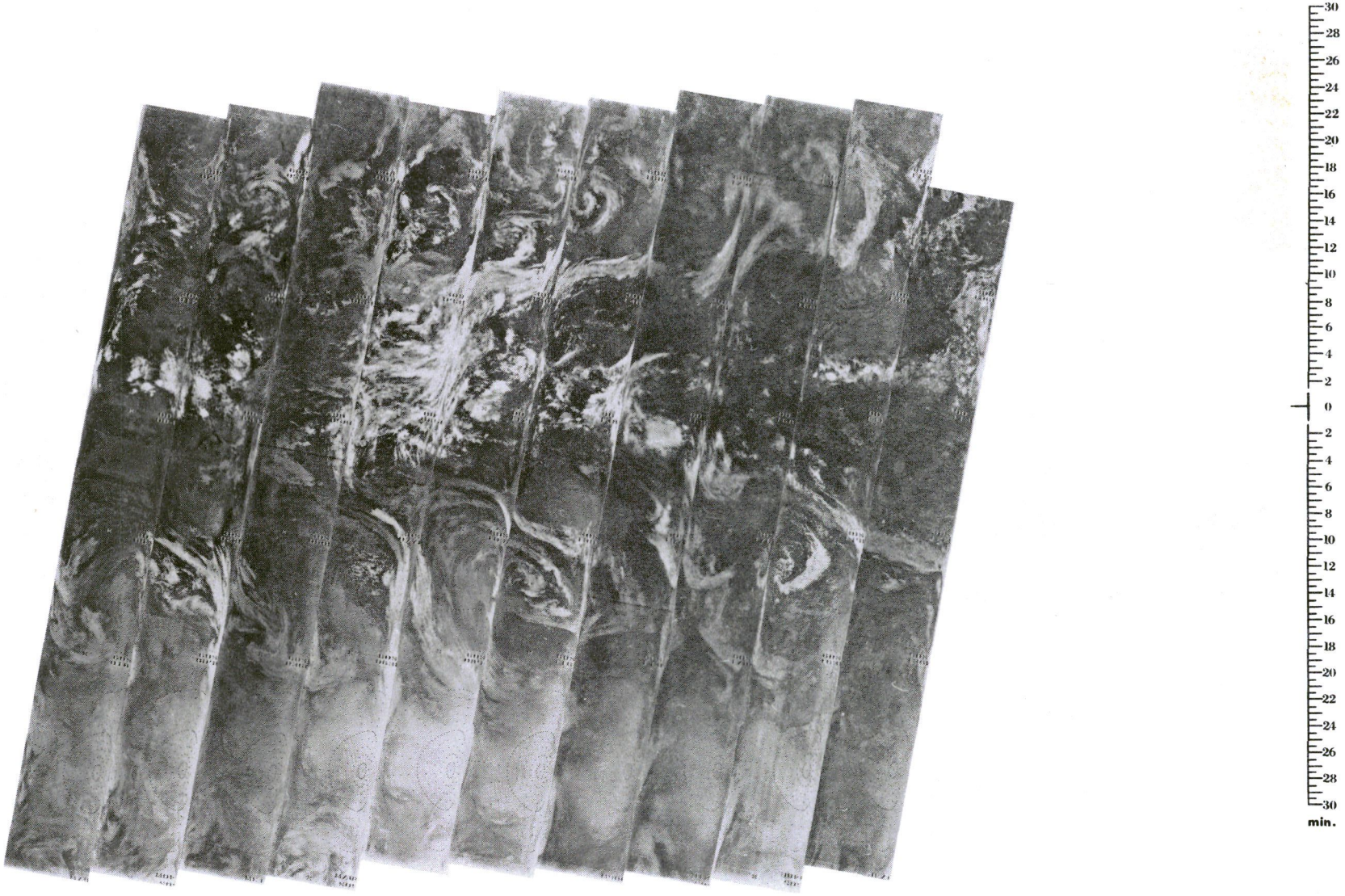


1016 1015 1014 1013 1012 1011 1010 1009 1008 1007 1006 1005 1004 1003

22 JUNE 1970

6.7μm

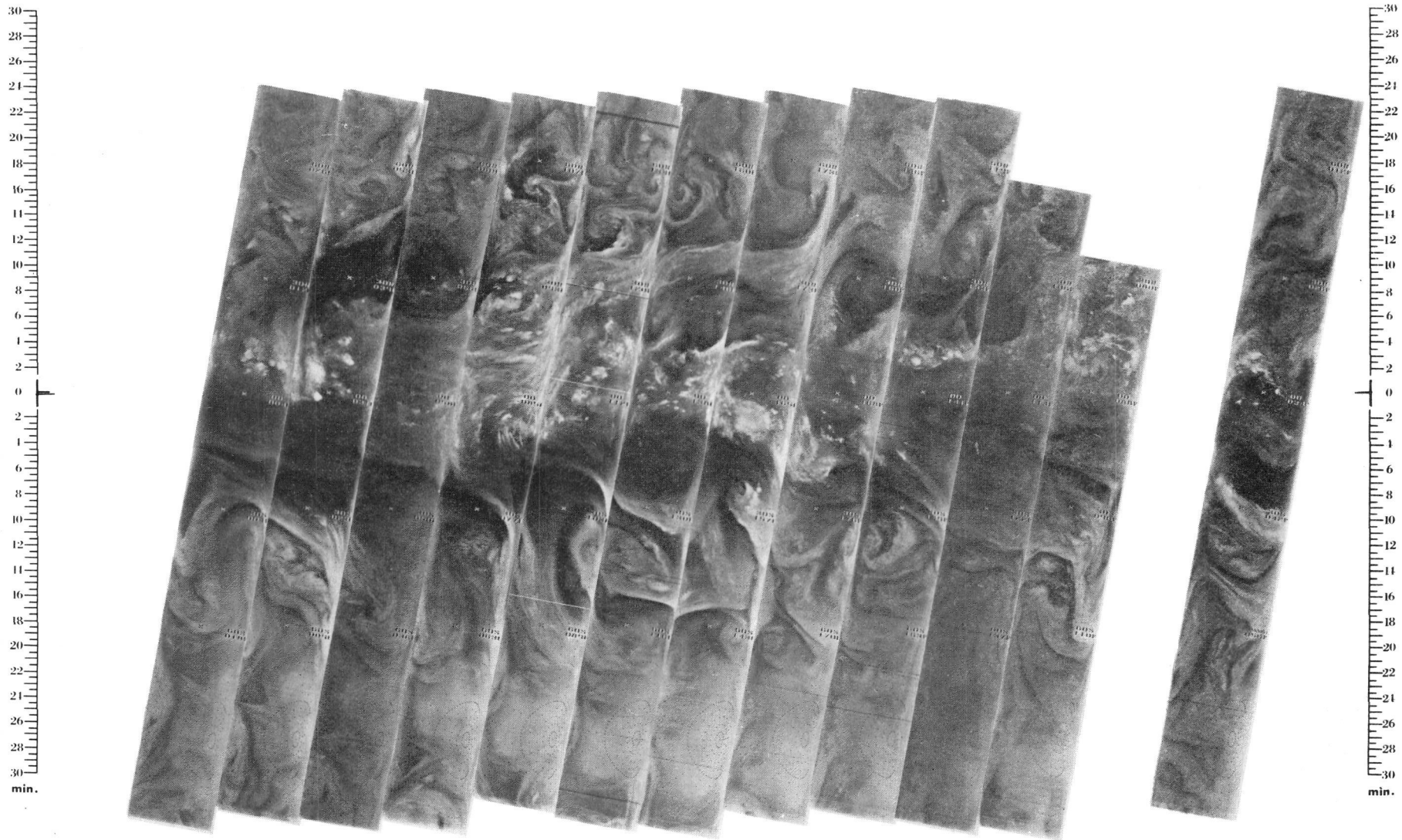
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1029 1028 1027 1026 1025 1024 1023 1022 1021 1020 1019 1018 1017

23 JUNE 1970

11.5μm



1029 1028 1027 1026 1025 1024 1023 1022 1021 1020 1019 1018 1017

23 JUNE 1970

6.7 μm



1043 1042 1041 1040 1039 1038 1037 1036 1035 1034 1033 1032 1031 1030

24 JUNE 1970

11.5μm



1043 1042 1041 1040 1039 1038 1037 1036 1035 1034 1033 1032 1031 1030

24 JUNE 1970

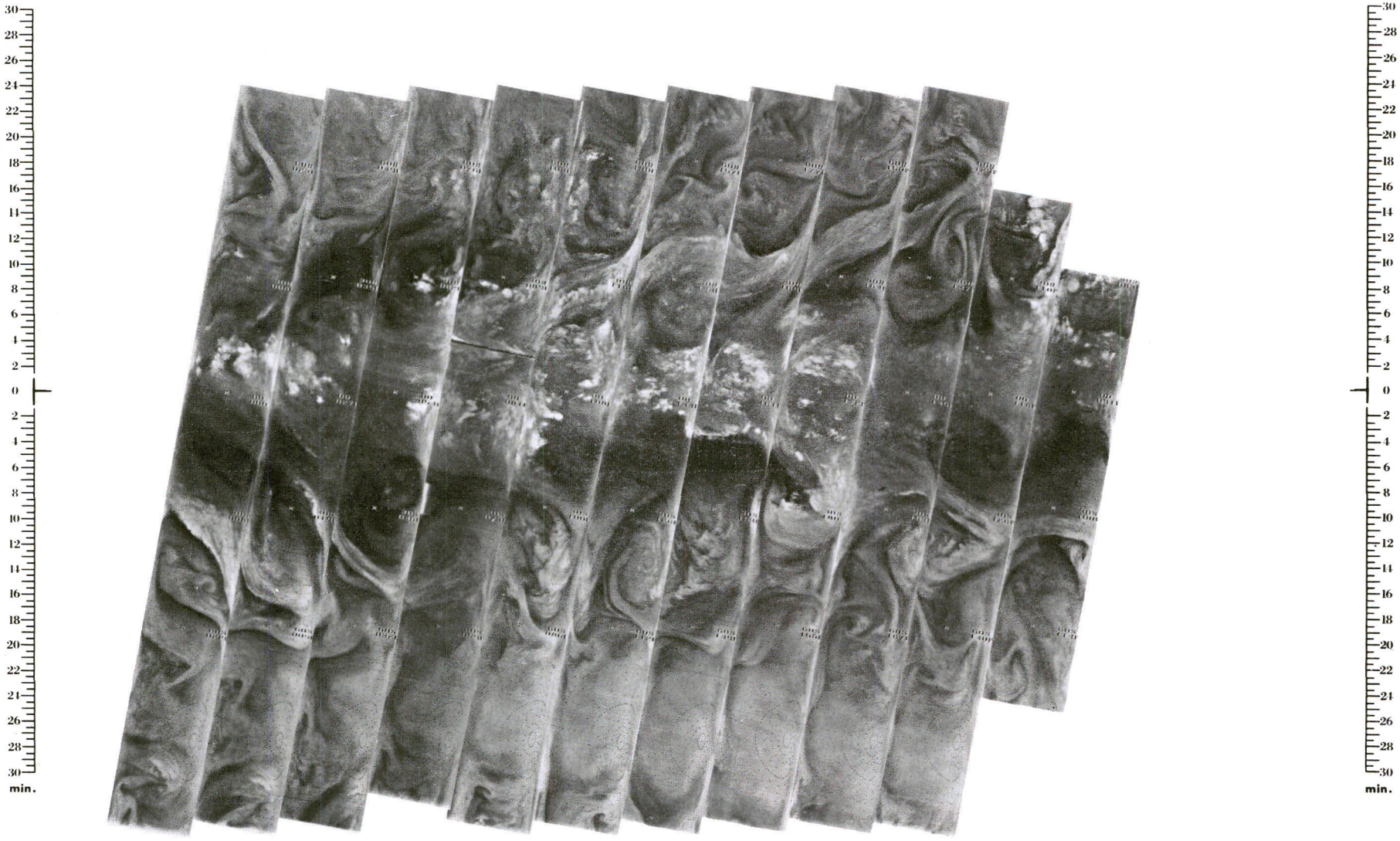
6.7μm



1056 1055 1054 1053 1052 1051 1050 1049 1048 1047 1046 1045 1044

25 JUNE 1970

11.5μm



1056 1055 1054 1053 1052 1051 1050 1049 1048 1047 1046 1045 1044

25 JUNE 1970

6.7μm


30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30
min.
30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30
min.
1070 1069 1068 1067 1066 1065 1064 1063 1062 1061 1060 1059 1058 1057
26 JUNE 1970
11.5μm



1070 1069 1068 1067 1066 1065 1064 1063 1062 1061 1060 1059 1058 1057

26 JUNE 1970

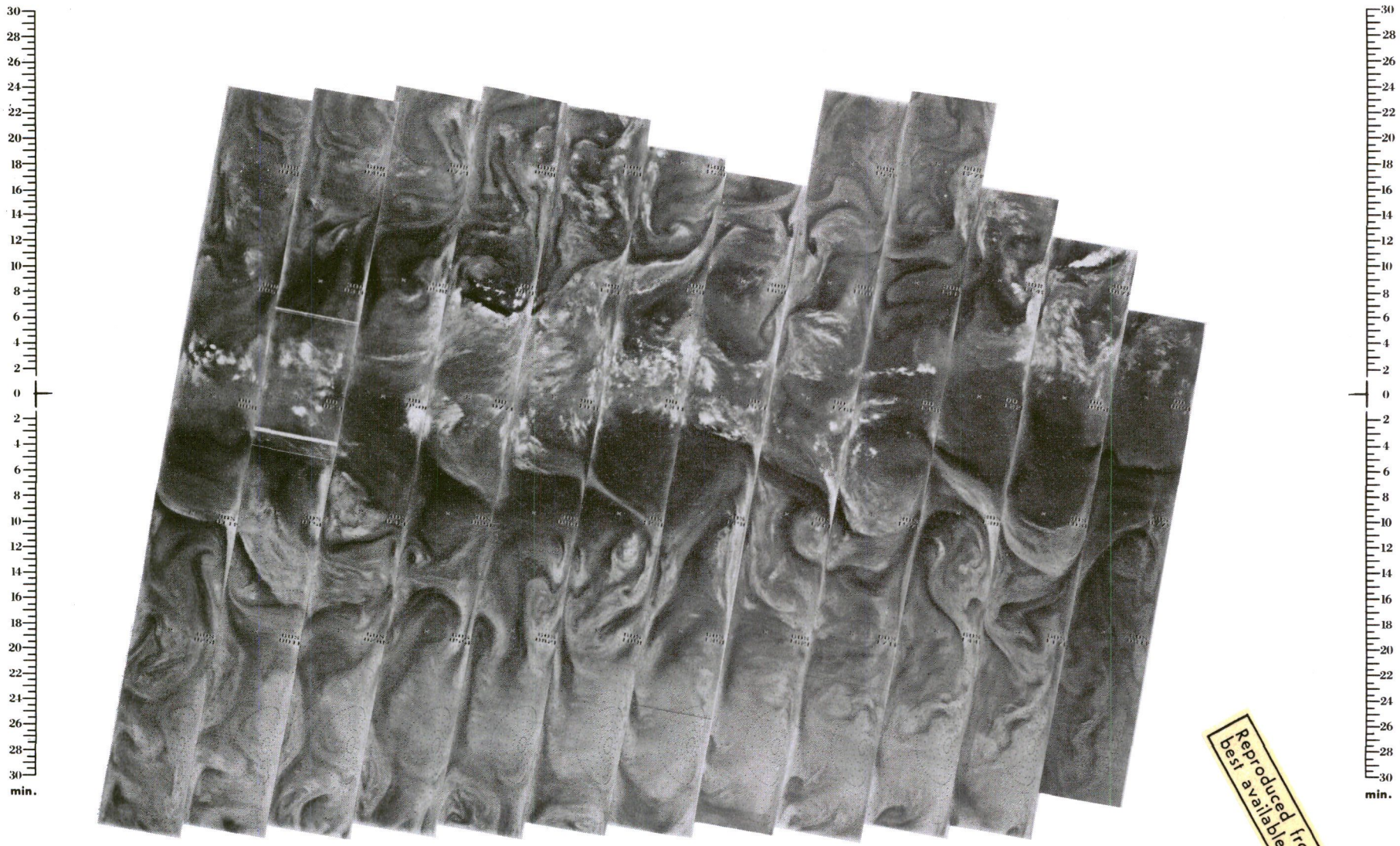
6.7μm



1083 1082 1081 1080 1079 1078 1077 1076 1075 1074 1073 1072 1071

27 JUNE 1970

11.5μm



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27 JUNE 1970

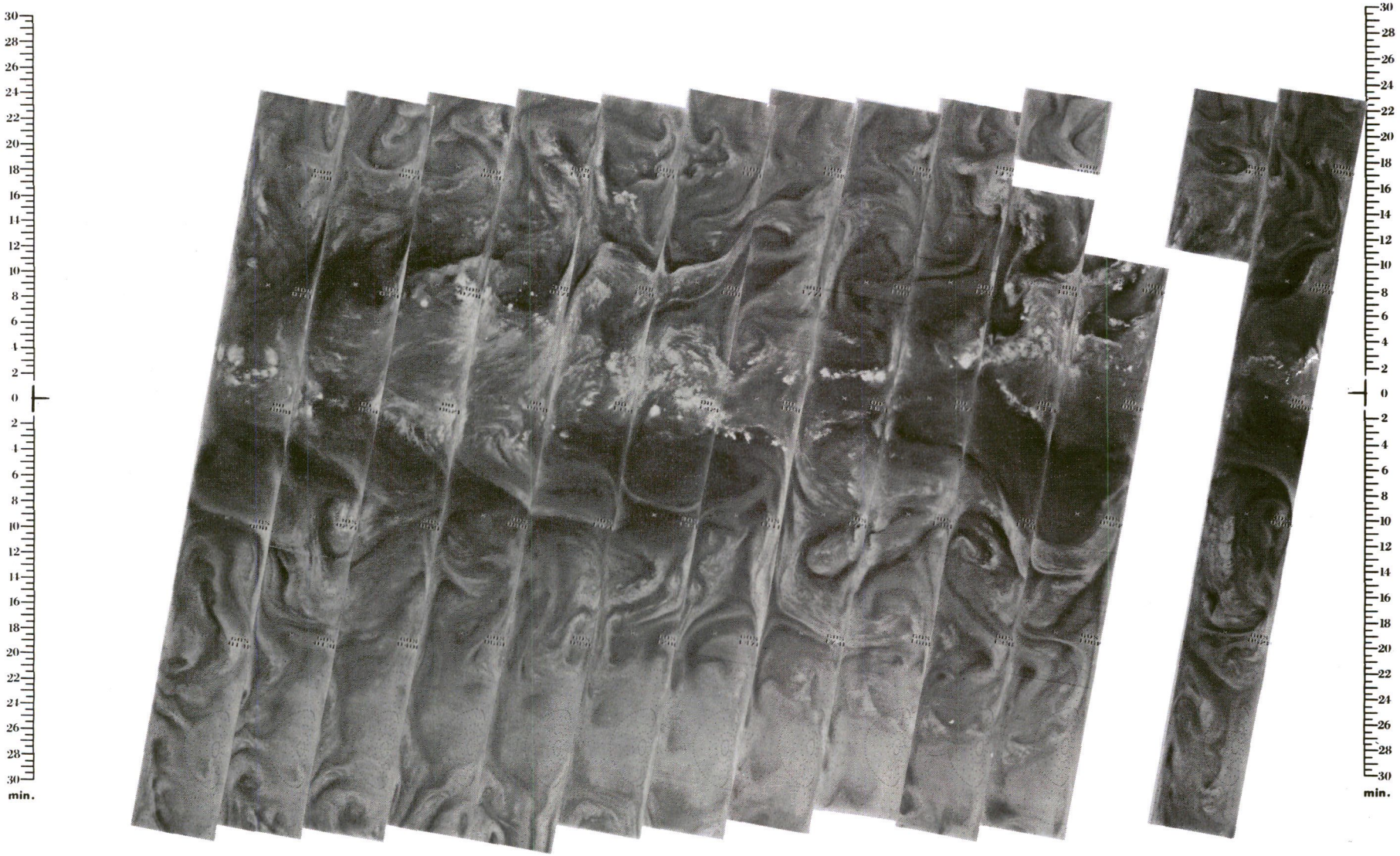
6.7μm



1096 1095 1094 1093 1092 1091 1090 1089 1088 1087 1086 1085 1084

28 JUNE 1970

11.5 μm



1096 1095 1094 1093 1092 1091 1090 1089 1088 1087 1086 1085 1084

28 JUNE 1970

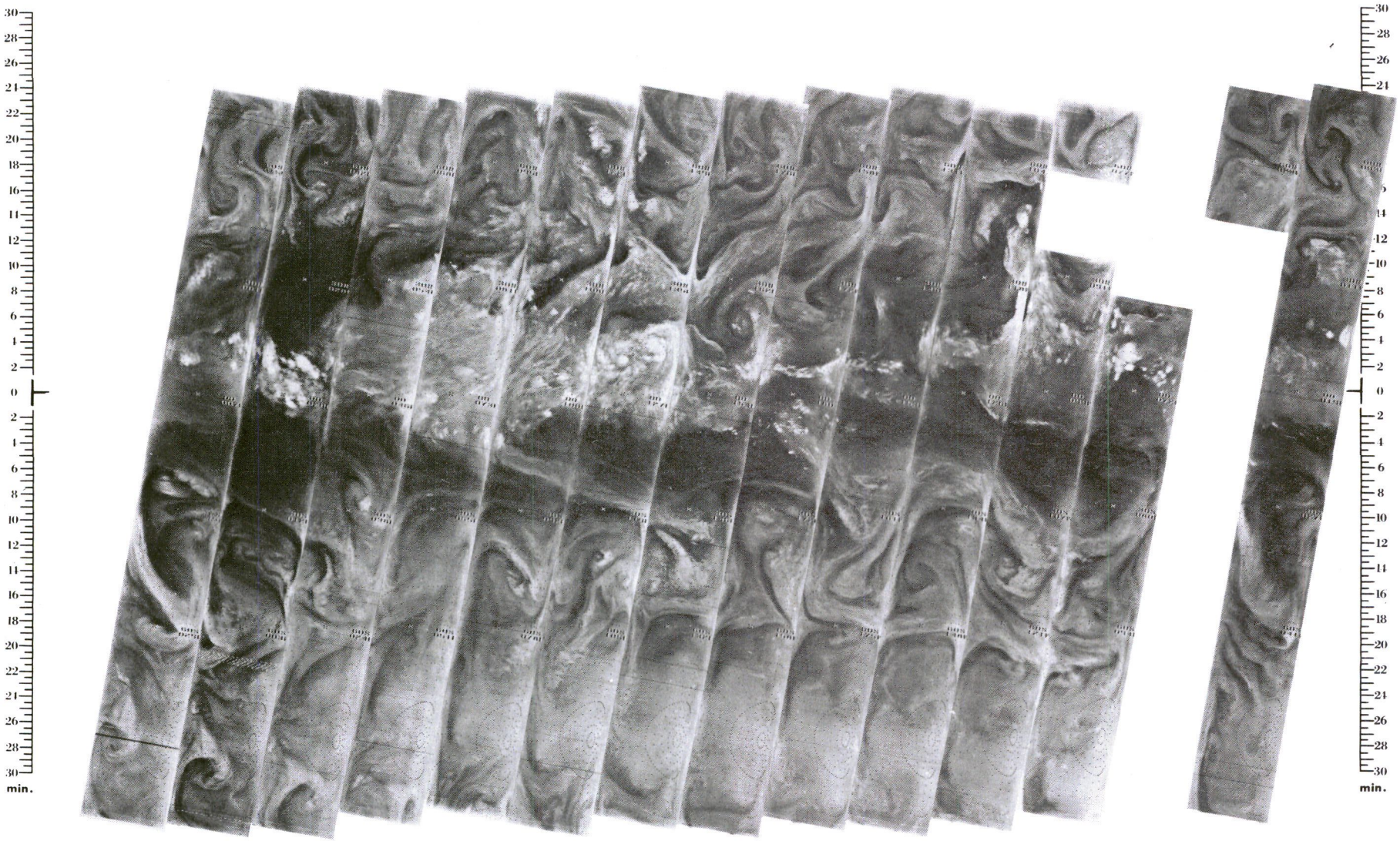
6.7μm



1110 1109 1108 1107 1106 1105 1104 1103 1102 1101 1100 1099 1098 1097

29 JUNE 1970

11.5μm



1110 1109 1108 1107 1106 1105 1104 1103 1102 1101 1100 1099 1098 1097

29 JUNE 1970

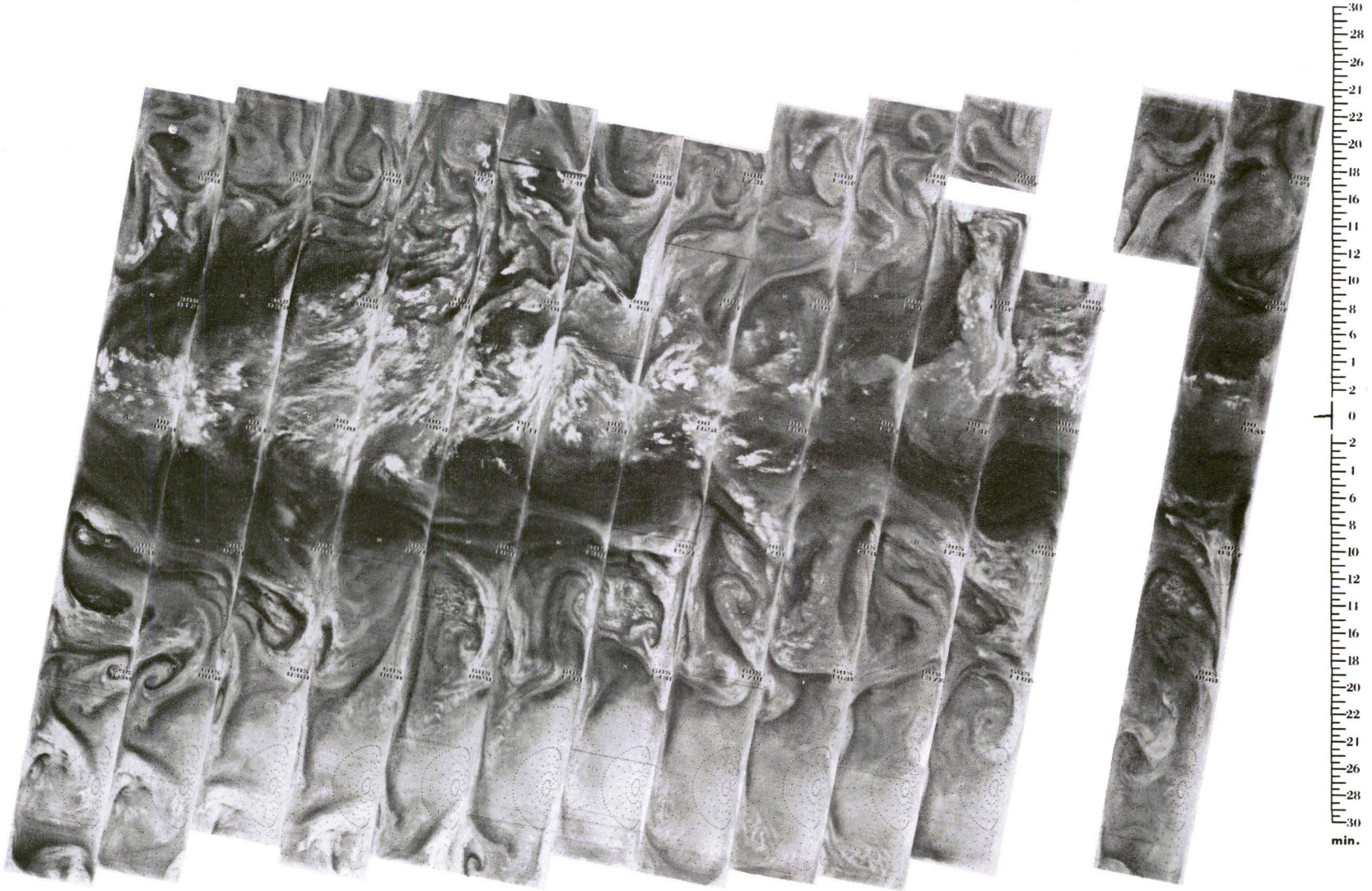
6.7μm



1123 1122 1121 1120 1119 1118 1117 1116 1115 1114 1113 1112 1111

30 JUNE 1970

11.5μm



1123 1122 1121 1120 1119 1118 1117 1116 1115 1114 1113 1112 1111

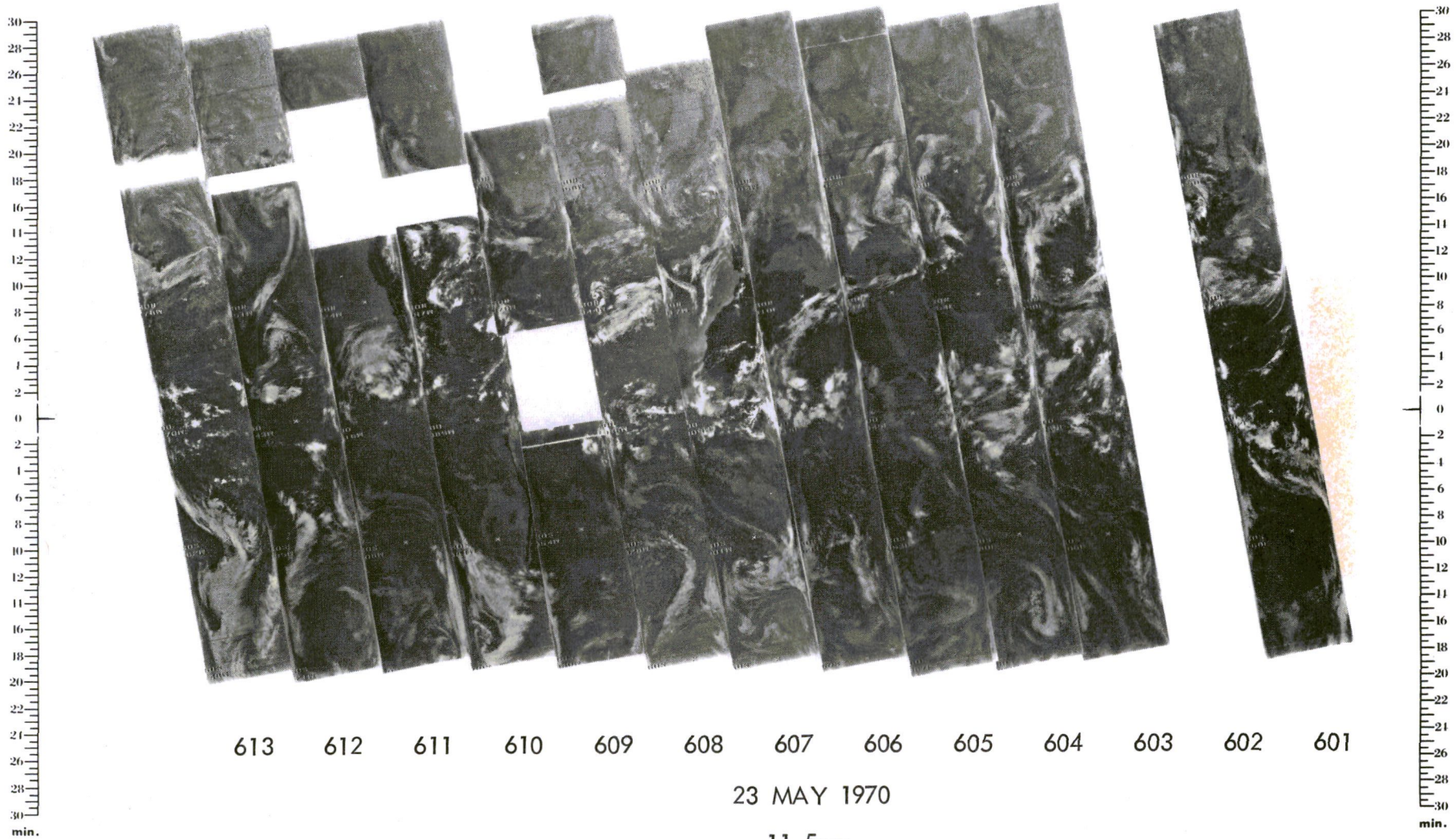
30 JUNE 1970

6.7μm

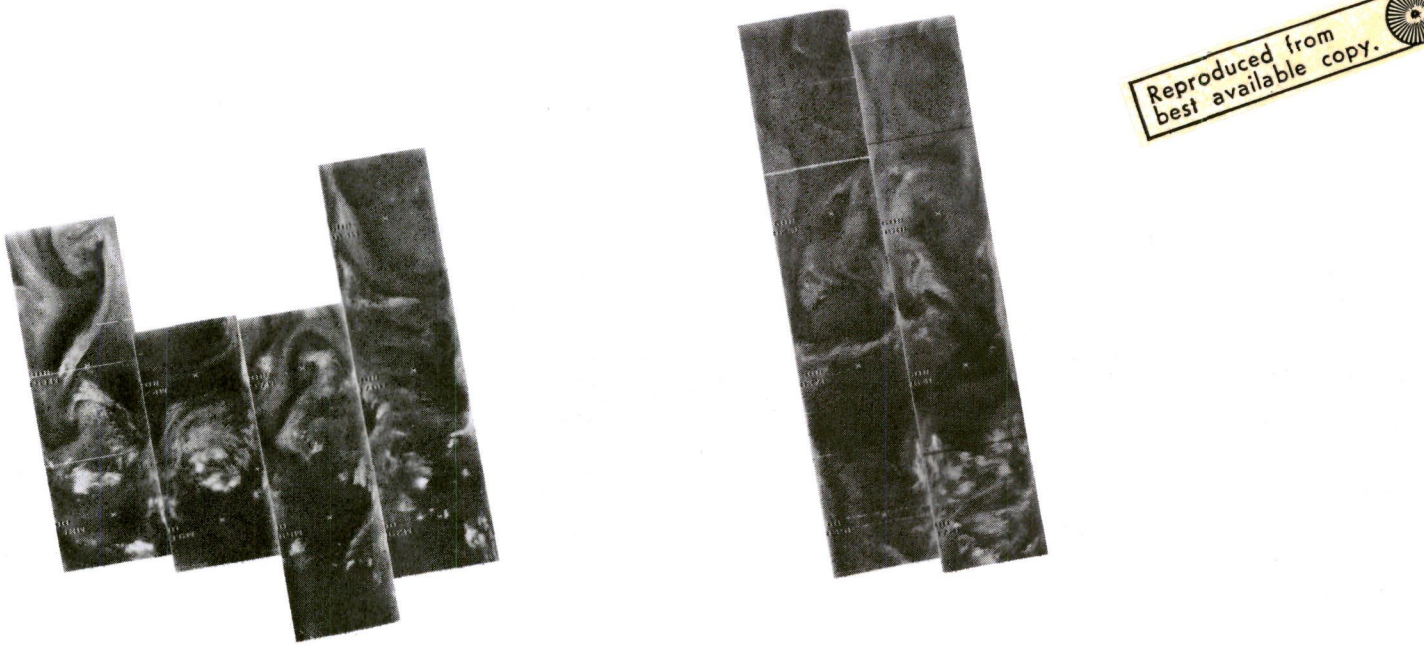
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SECTION 4.2
TEMPERATURE HUMIDITY INFRARED RADIOMETER
DAYTIME MONTAGES

PRECEDING PAGE BLANK NOT FILMED


613 612 611 610 609 608 607 606 605 604 603 602 601
23 MAY 1970
11.5μm
min.
min.

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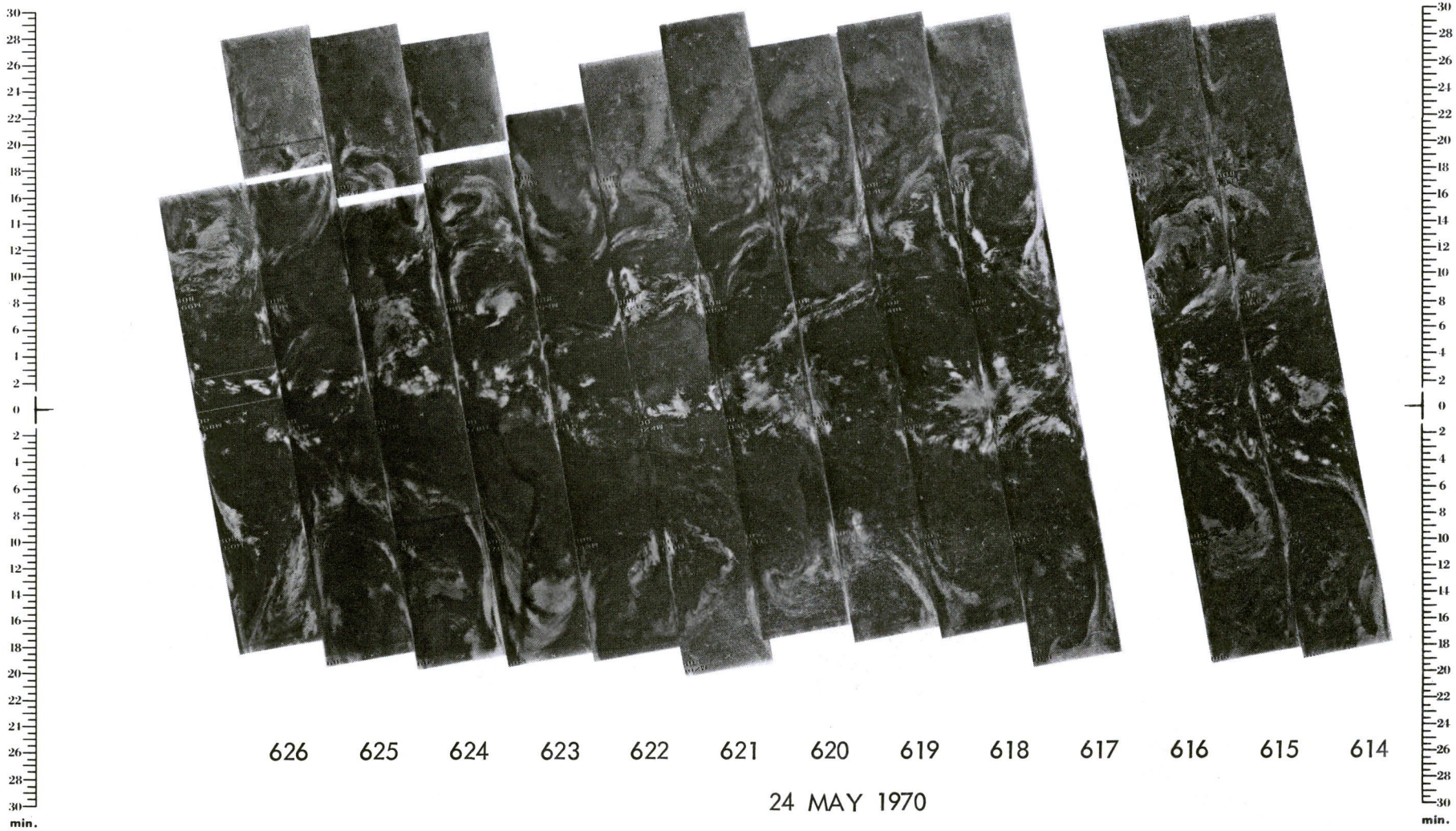
613 612 611 610 609 608 607 606 605 604 603 602 601

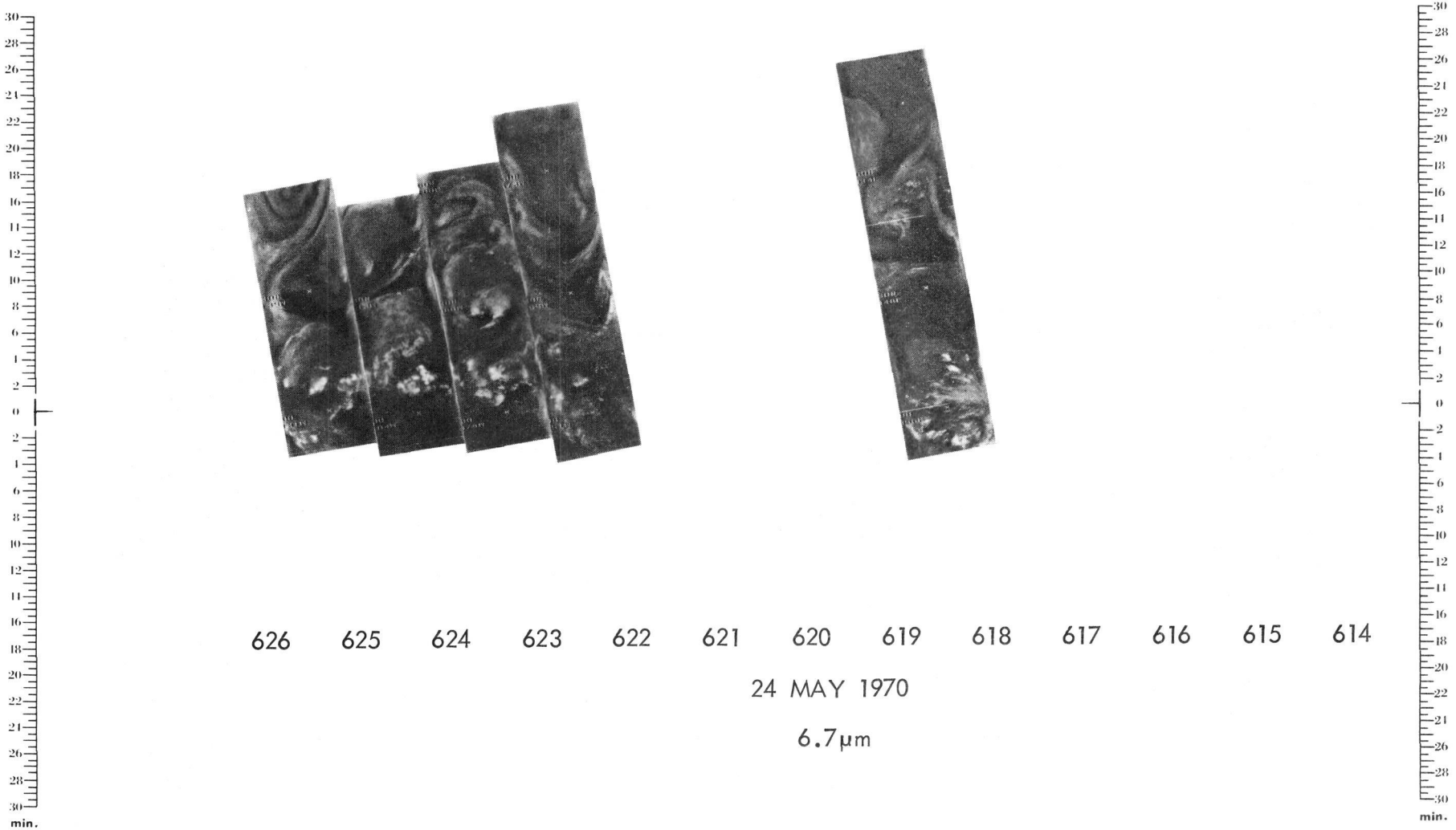
23 MAY 1970

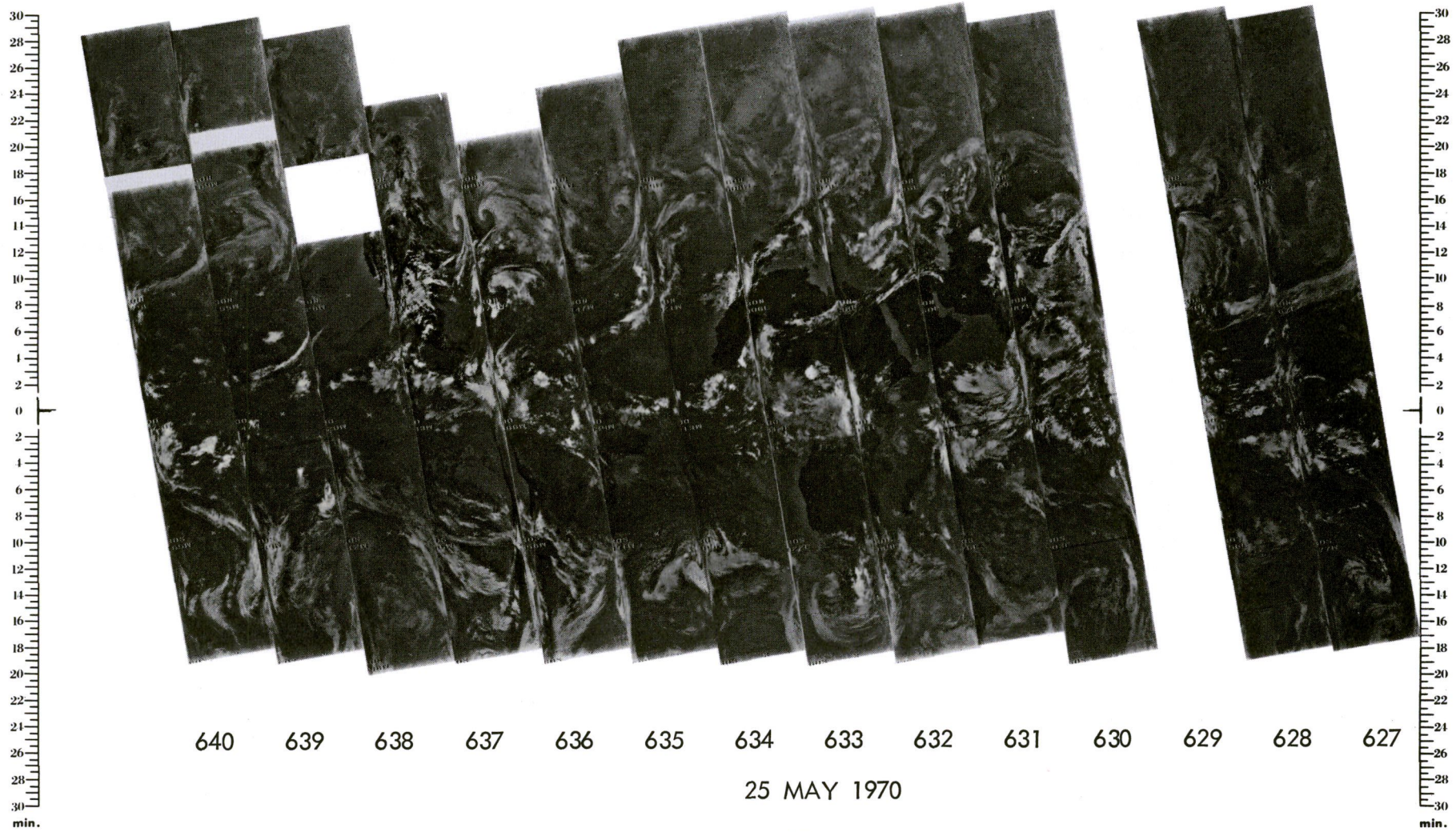
6.7μm

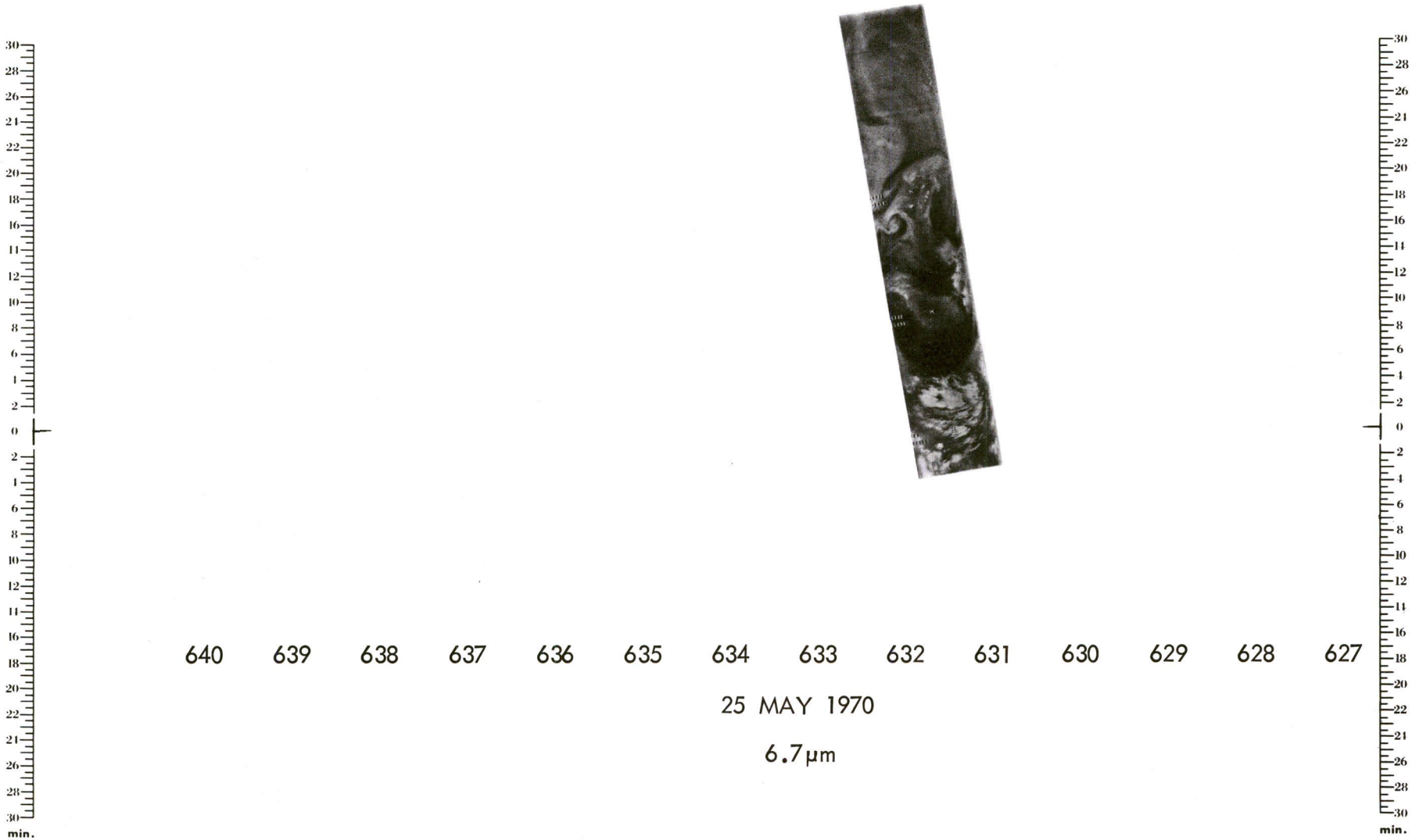
min.

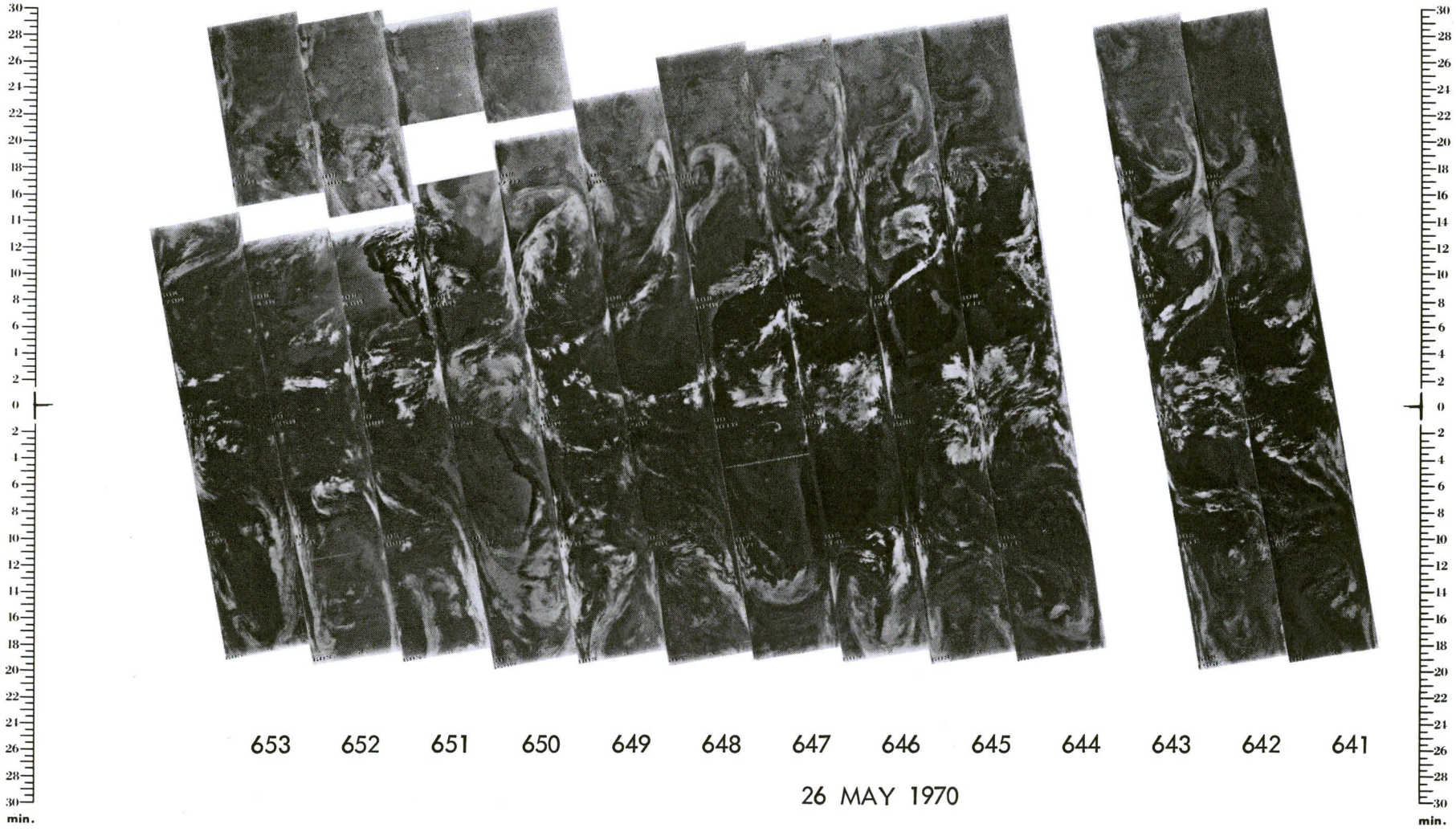
min.


626 625 624 623 622 621 620 619 618 617 616 615 614
24 MAY 1970
11.5μm
min.
min.


626 625 624 623 622 621 620 619 618 617 616 615 614
24 MAY 1970
6.7μm
min.
min.

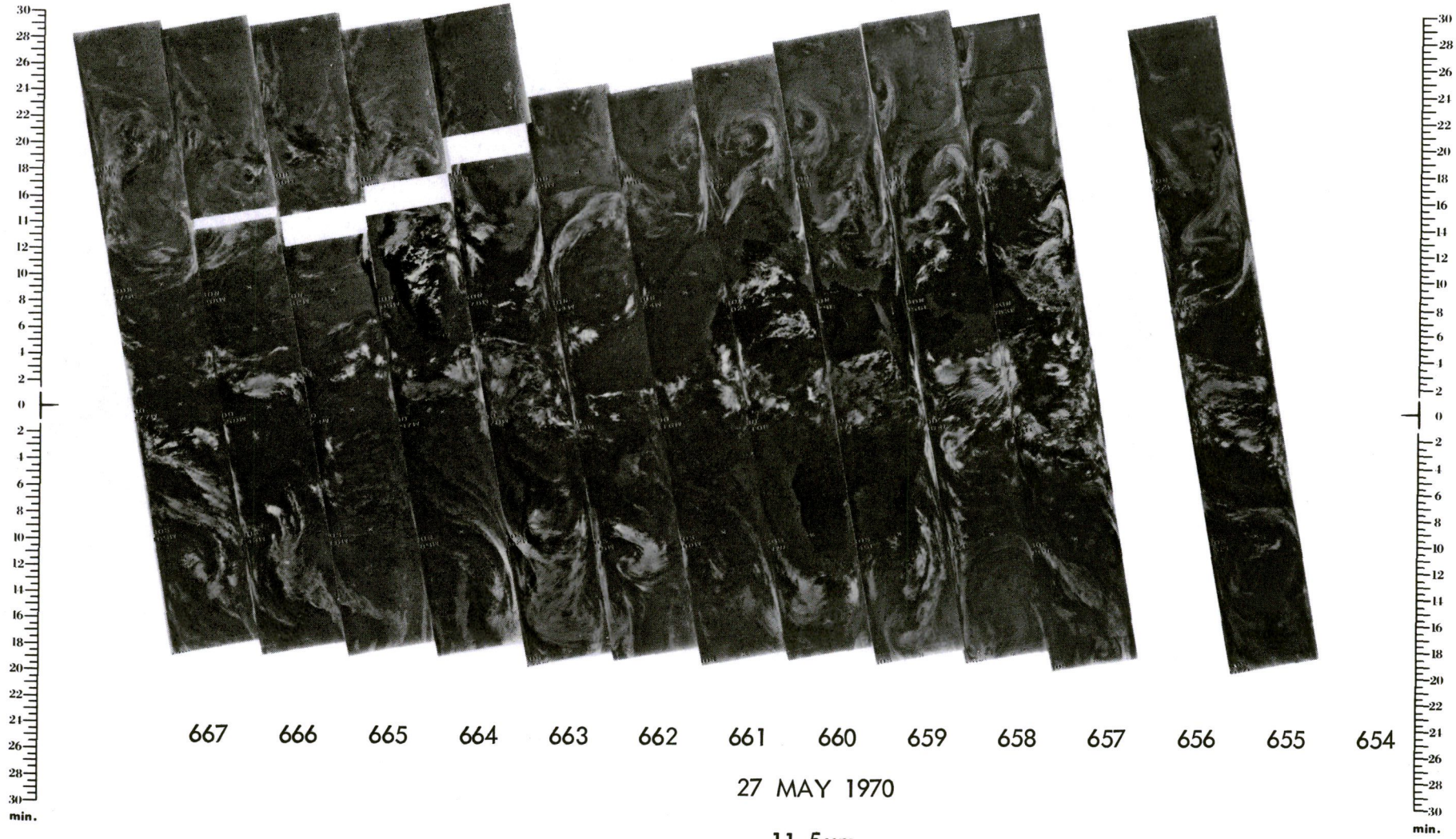

640
639
638
637
636
635
634
633
632
631
630
629
628
627
25 MAY 1970
11.5μm
min.
min.

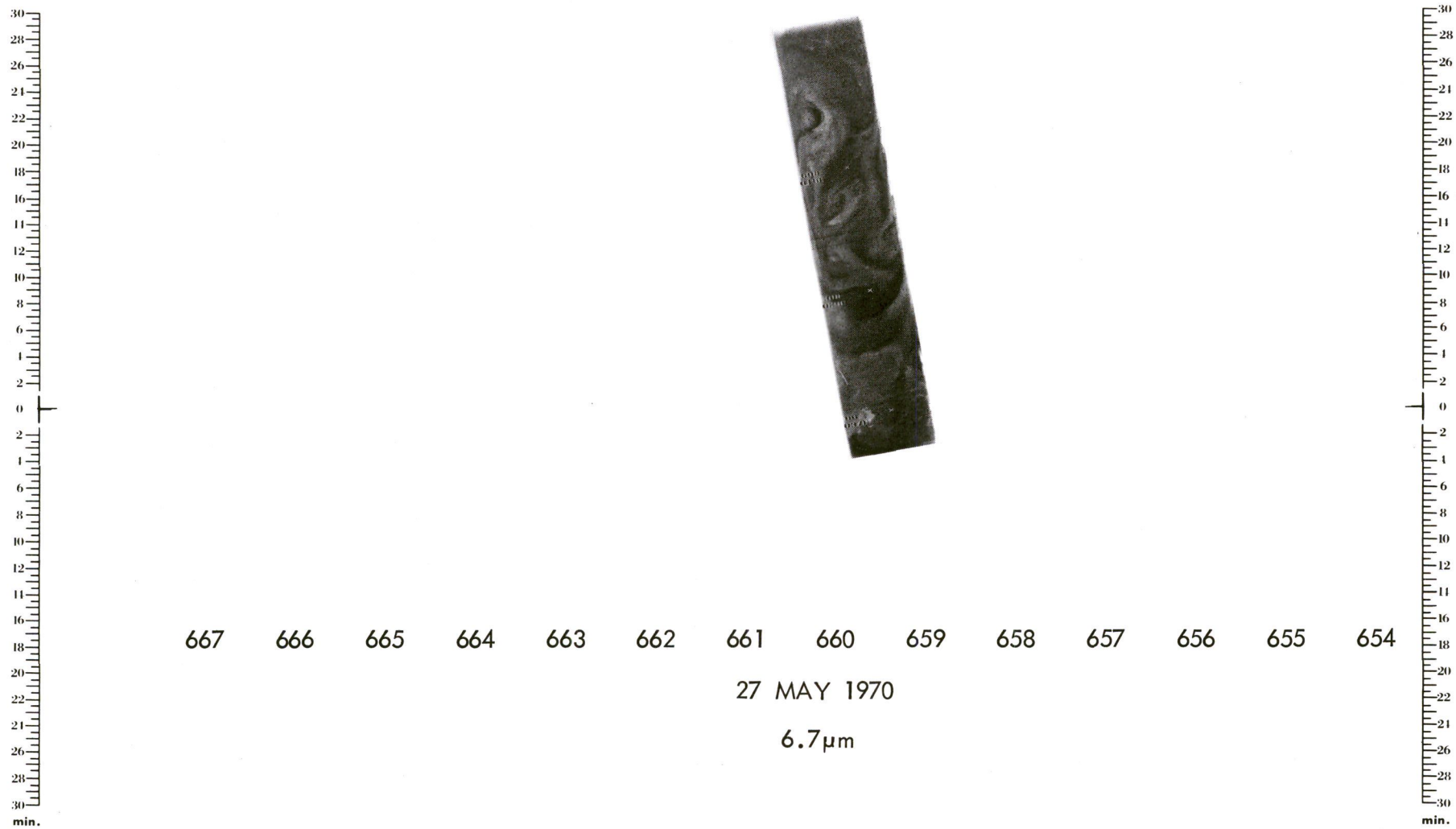

640 639 638 637 636 635 634 633 632 631 630 629 628 627
25 MAY 1970
6.7μm
min.
min.

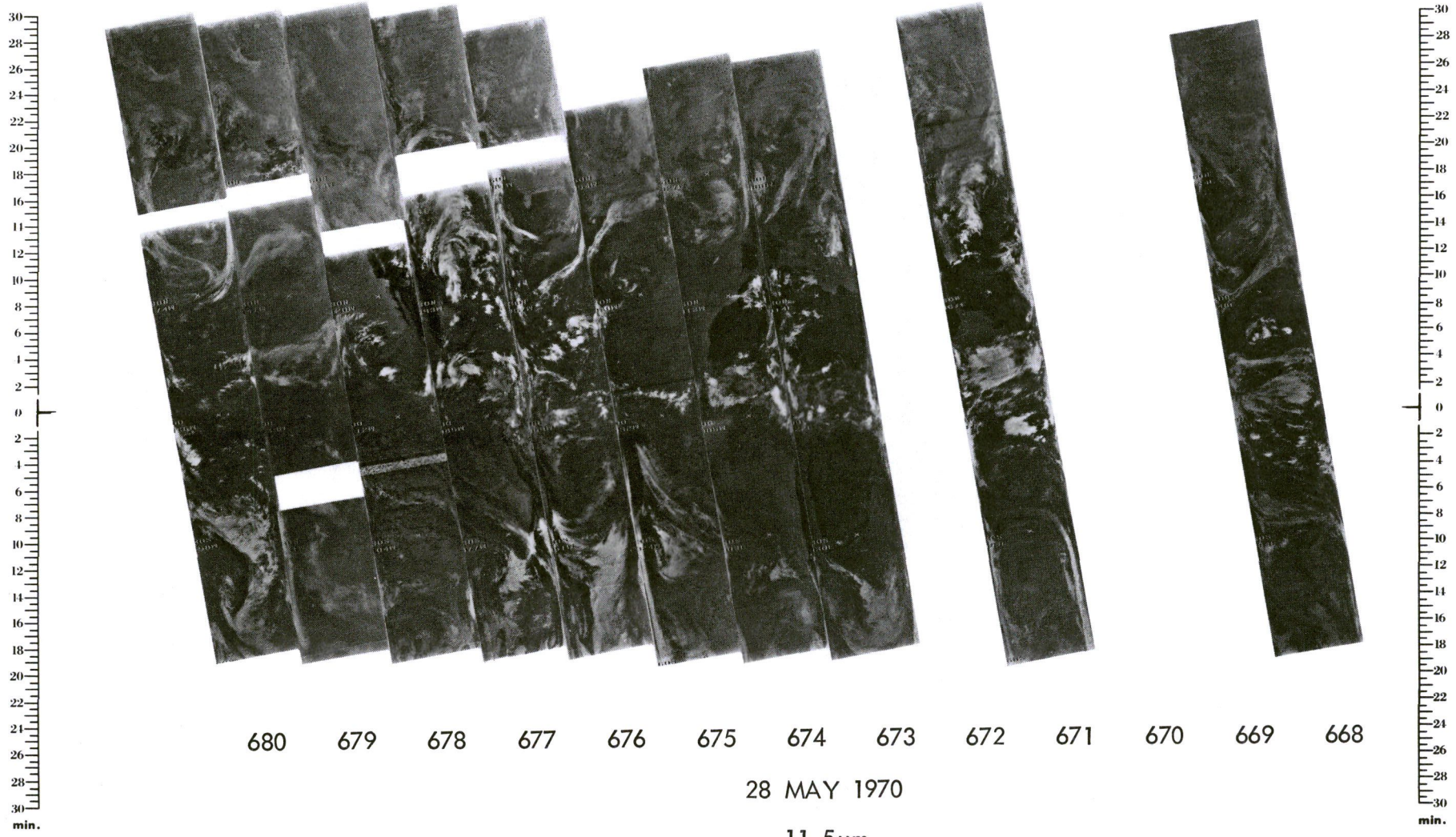

653 652 651 650 649 648 647 646 645 644 643 642 641
26 MAY 1970
11.5μm
min.
min.

26 MAY 1970 NO 6.7 μm DATA

C-3


667
666
665
664
663
662
661
660
659
658
657
656
655
654
27 MAY 1970
11.5μm
min.
min.


667 666 665 664 663 662 661 660 659 658 657 656 655 654
27 MAY 1970
6.7μm
min.
min.


680
679
678
677
676
675
674
673
672
671
670
669
668
28 MAY 1970
11.5μm
min.
min.

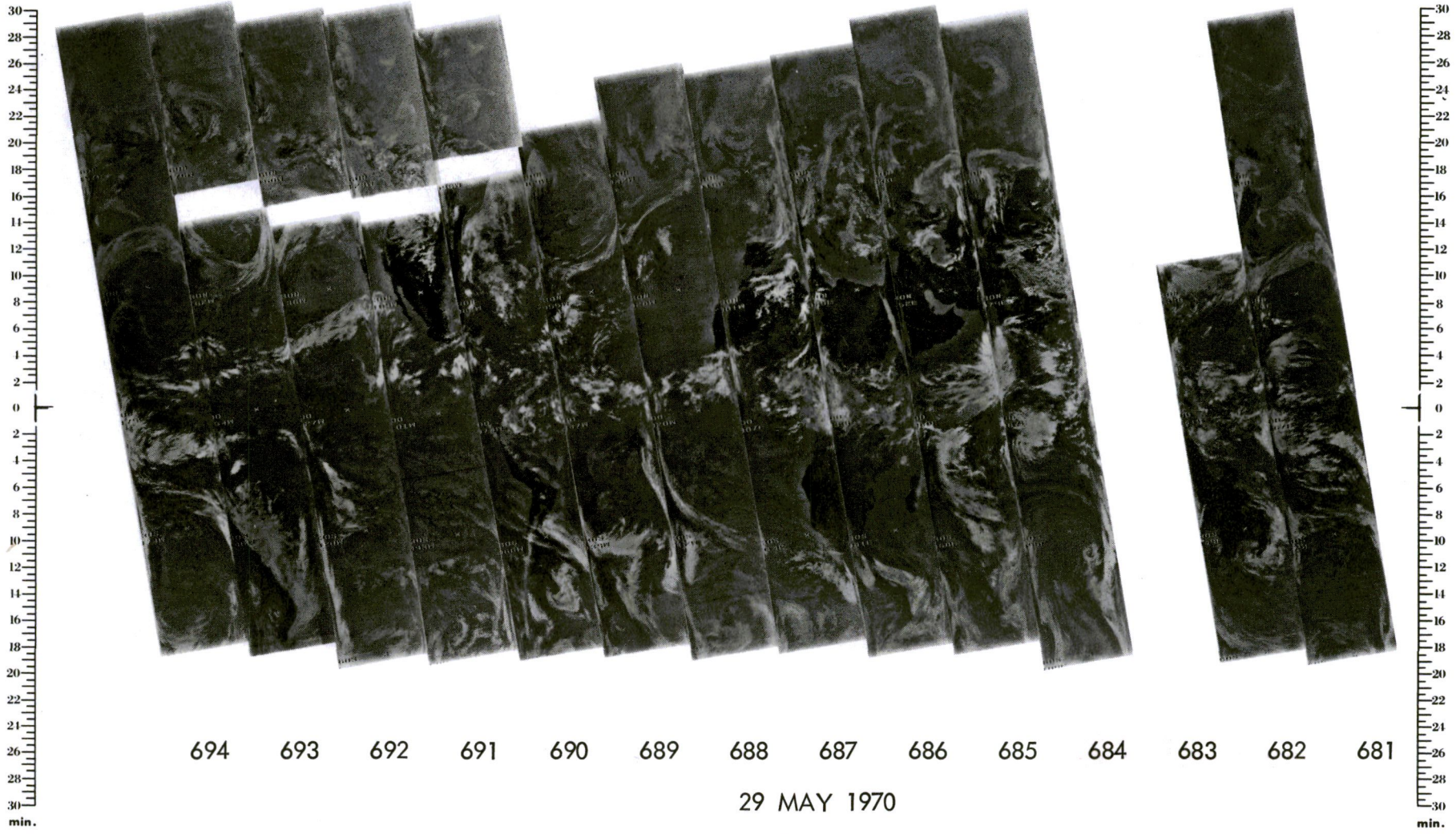
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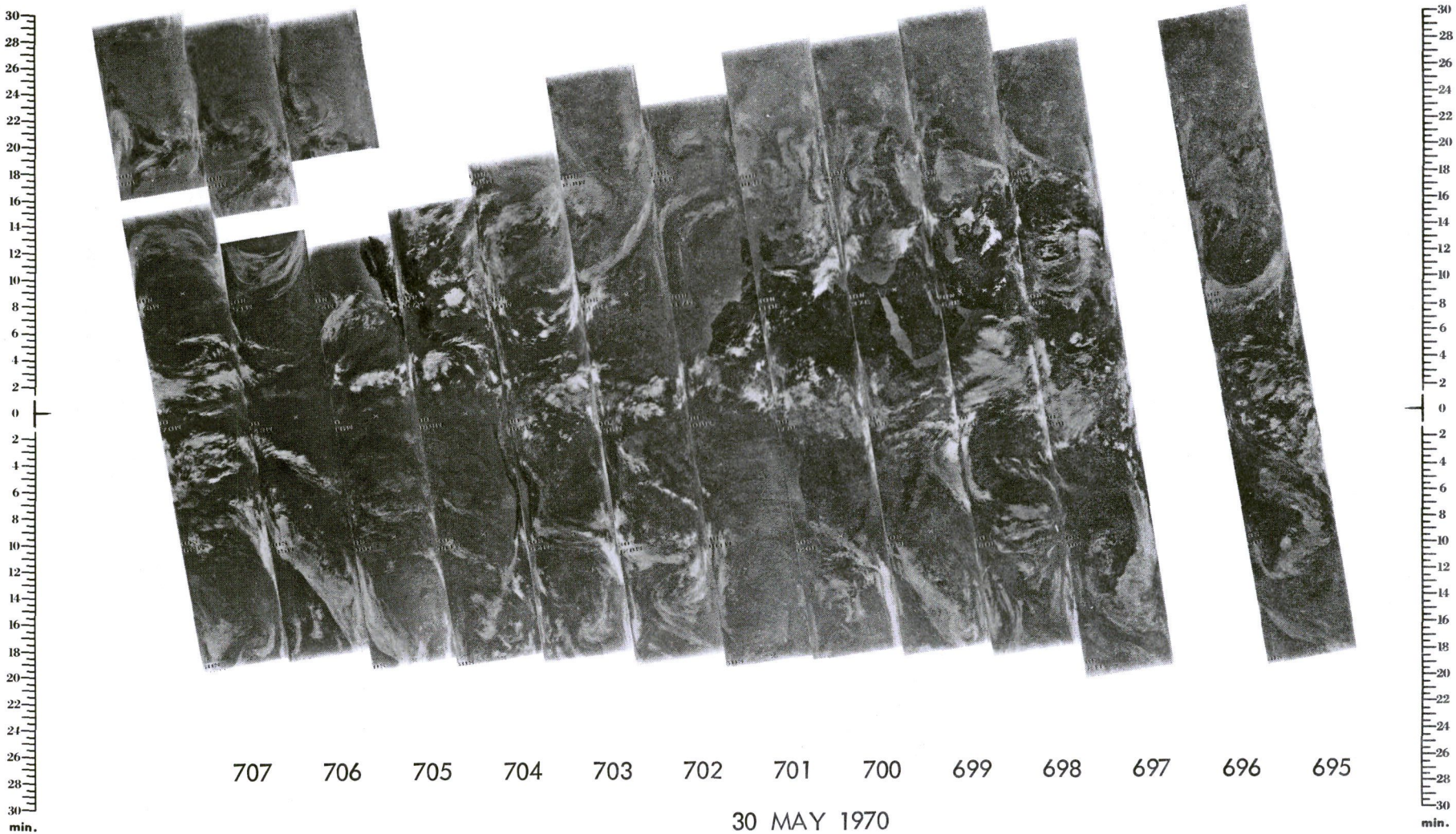
680 679 678 677 676 675 674 673 672 671 670 669 668

28 MAY 1970

6.7μm


694 693 692 691 690 689 688 687 686 685 684 683 682 681
29 MAY 1970
11.5μm
min.
min.

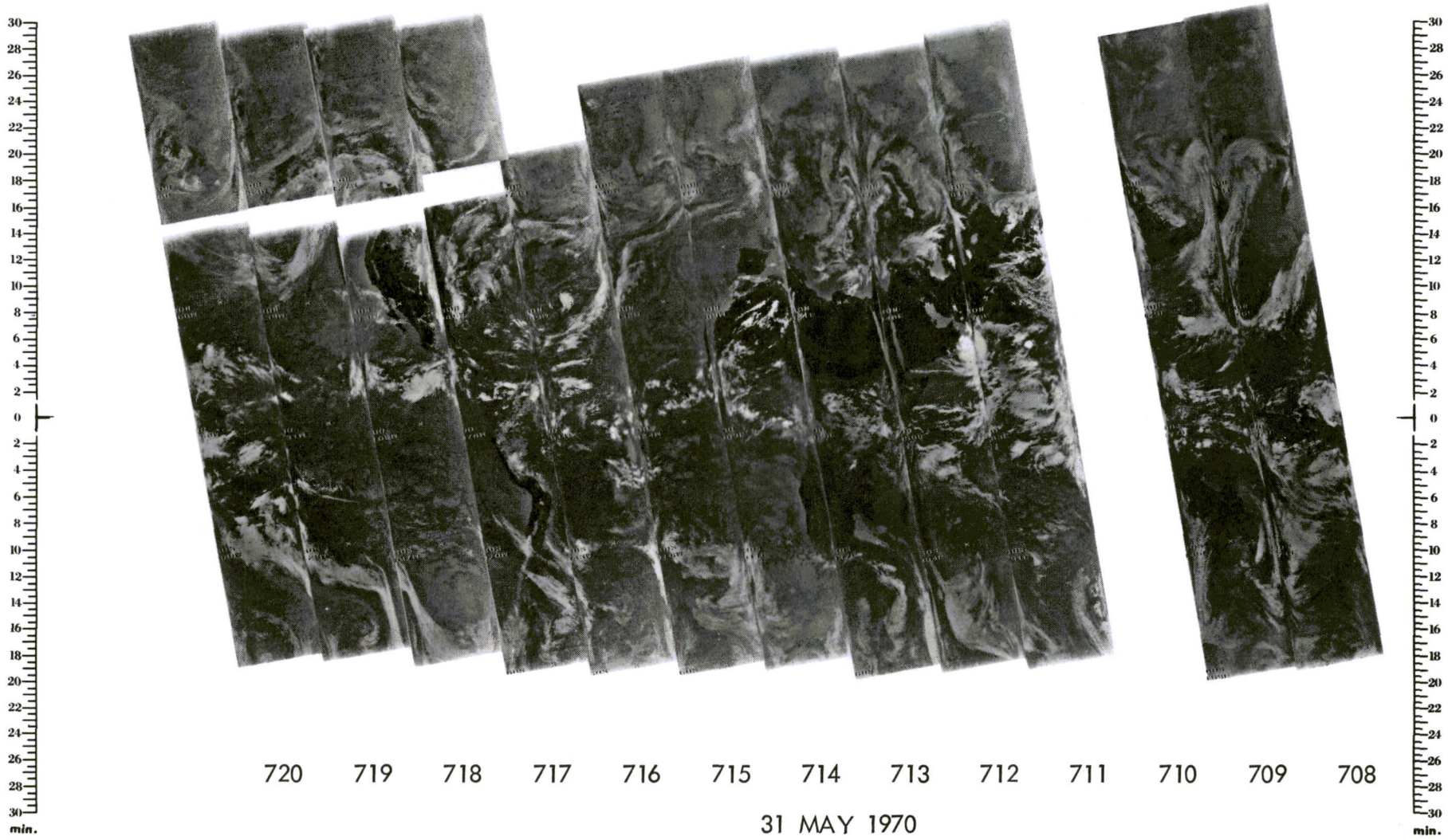
694 693 692 691 690 689 688 687 686 685 684 683 682 681
29 MAY 1970
6.7μm
min.
min.


30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30
min.
707 706 705 704 703 702 701 700 699 698 697 696 695
30 MAY 1970
11.5μm

707 706 705 704 703 702 701 700 699 698 697 696 695

30 MAY 1970

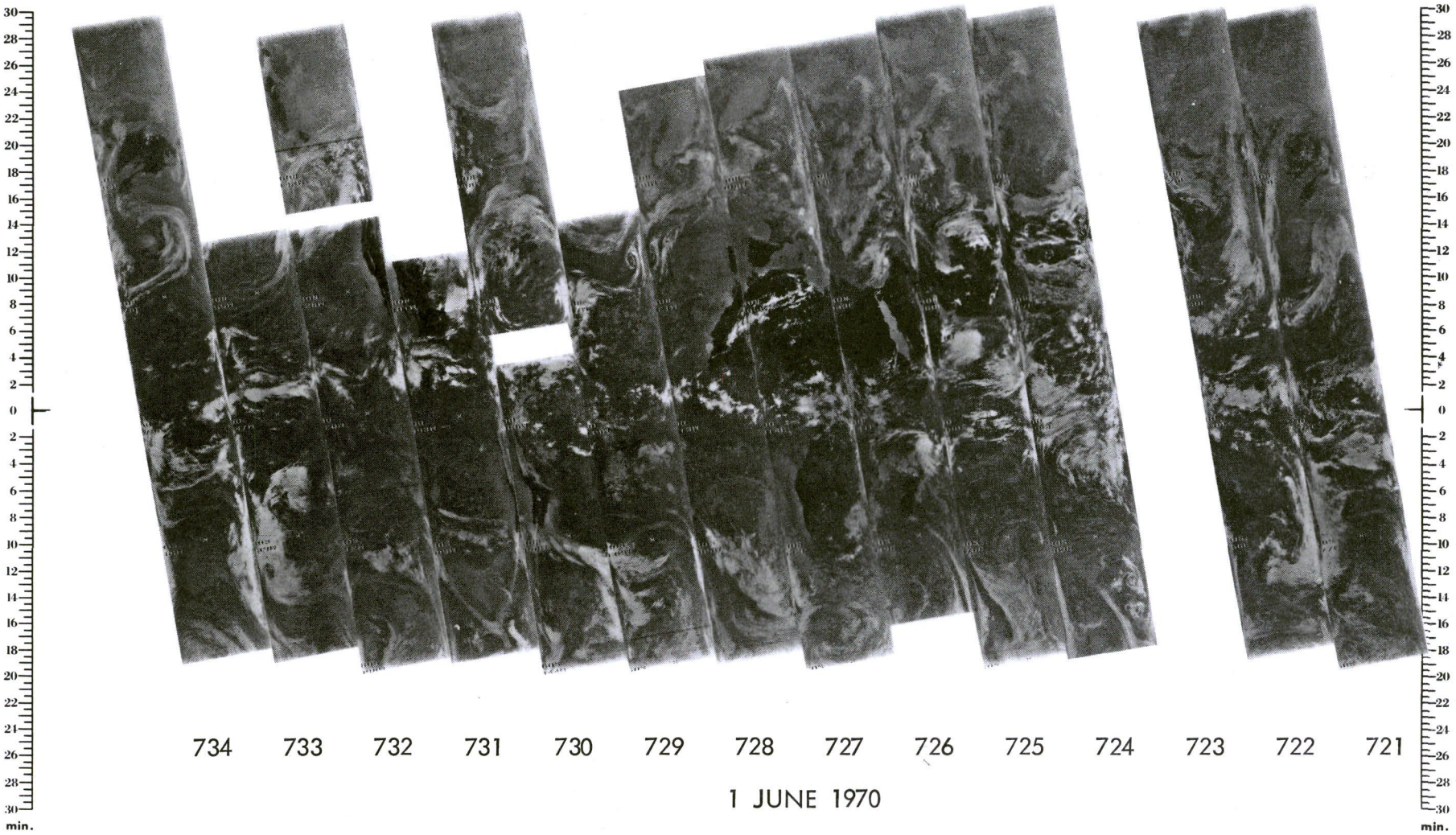
6.7μm

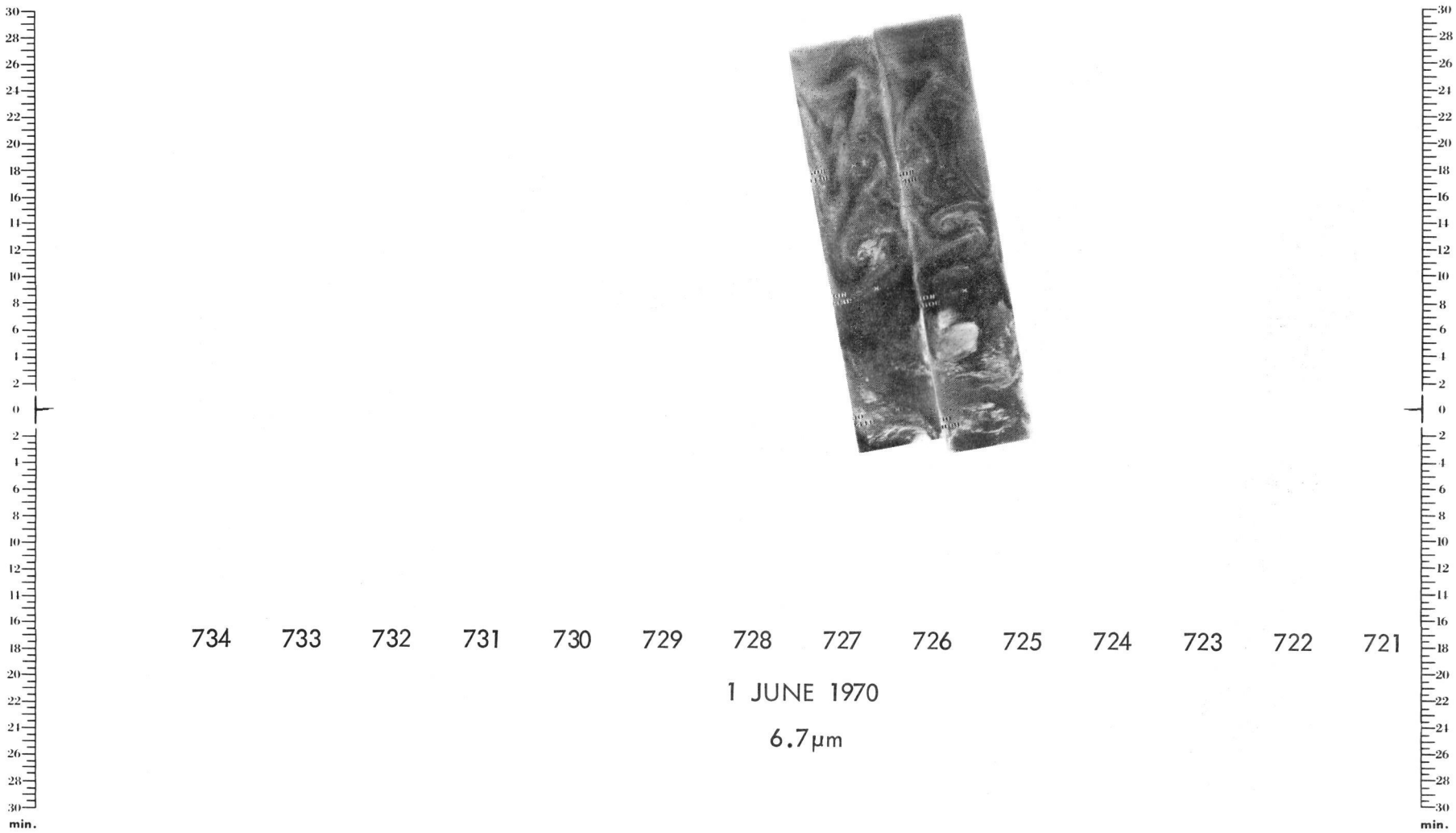

720 719 718 717 716 715 714 713 712 711 710 709 708
31 MAY 1970
11.5μm
min.
min.

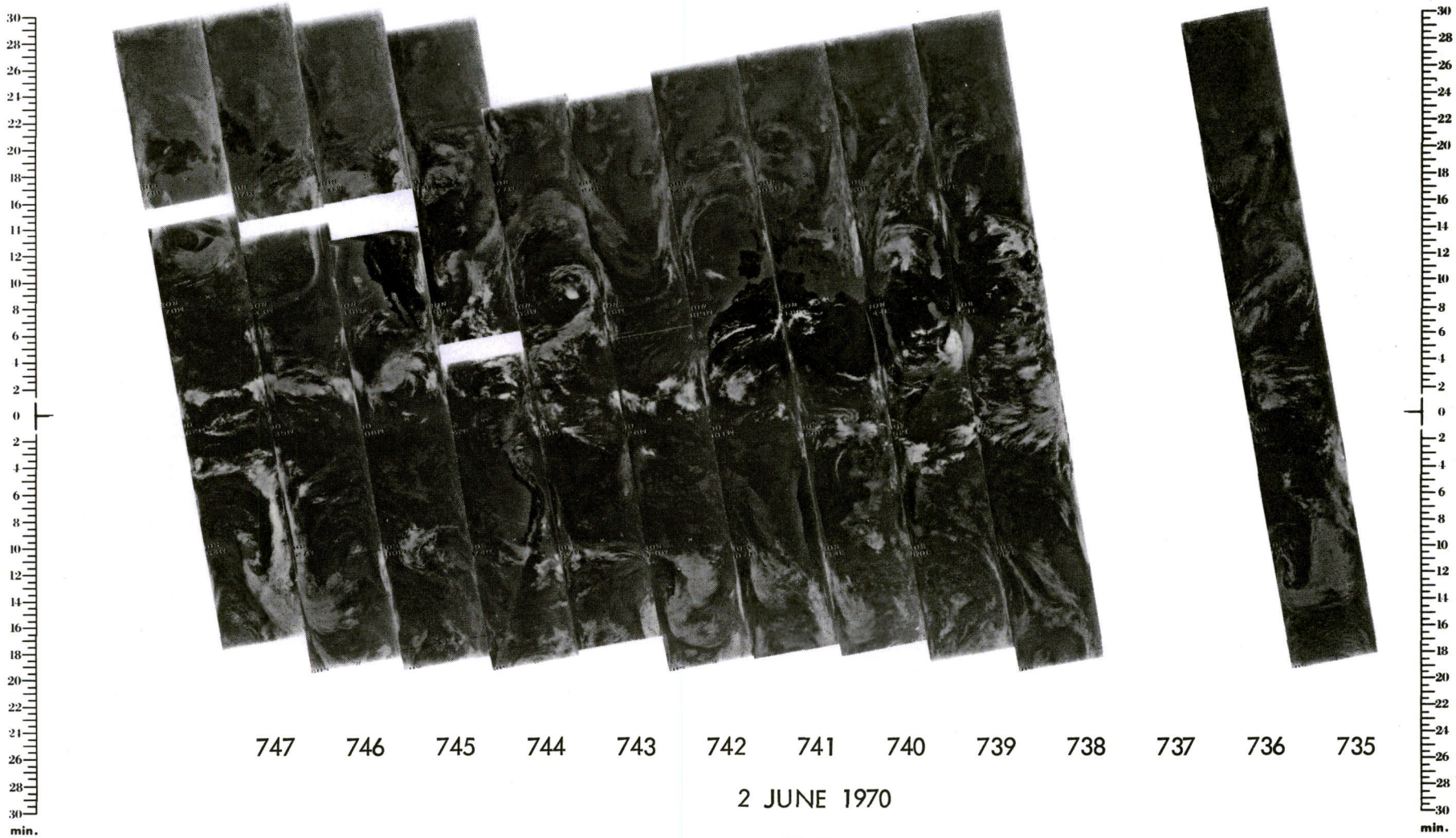
720 719 718 717 716 715 714 713 712 711 710 709 708

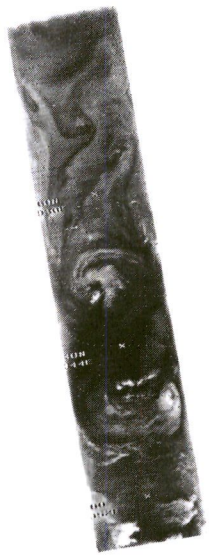
31 MAY 1970

6.7μm


734 733 732 731 730 729 728 727 726 725 724 723 722 721
1 JUNE 1970
11.5μm
min.
min.


734 733 732 731 730 729 728 727 726 725 724 723 722 721
1 JUNE 1970
6.7μm
min.
min.


747 746 745 744 743 742 741 740 739 738 737 736 735
2 JUNE 1970
11.5μm
min.
min.

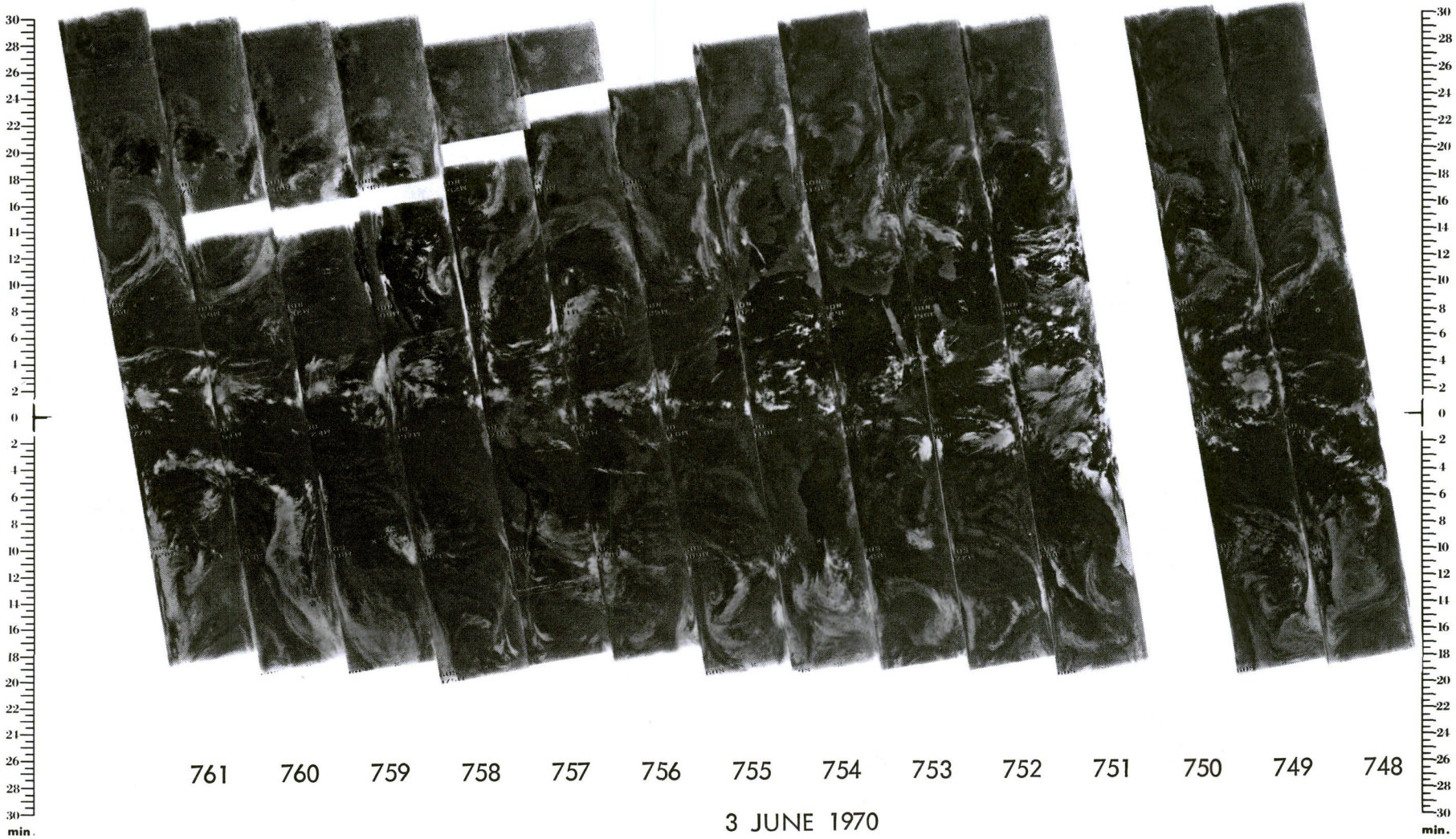


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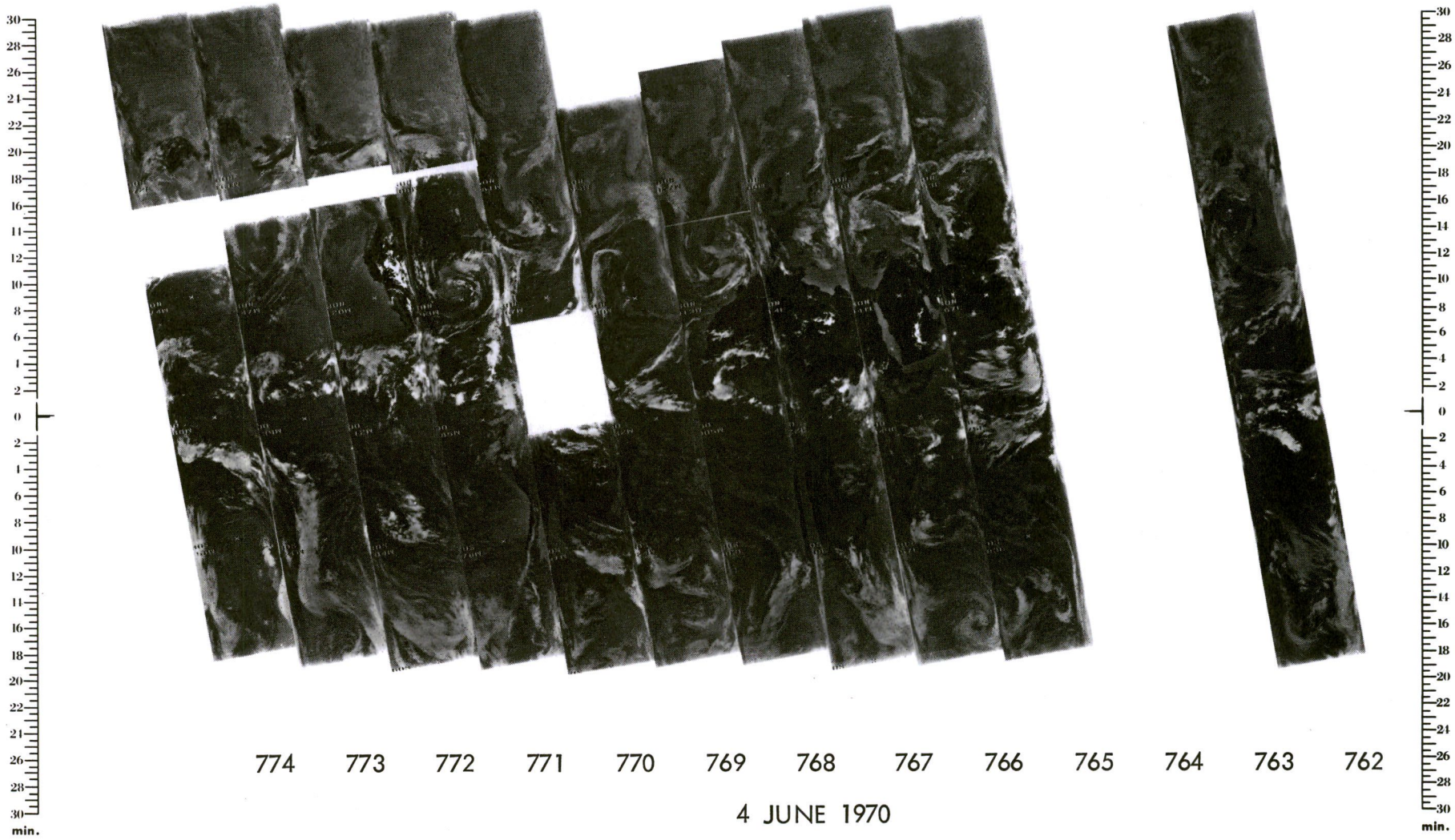
747 746 745 744 743 742 741 740 739 738 737 736 735

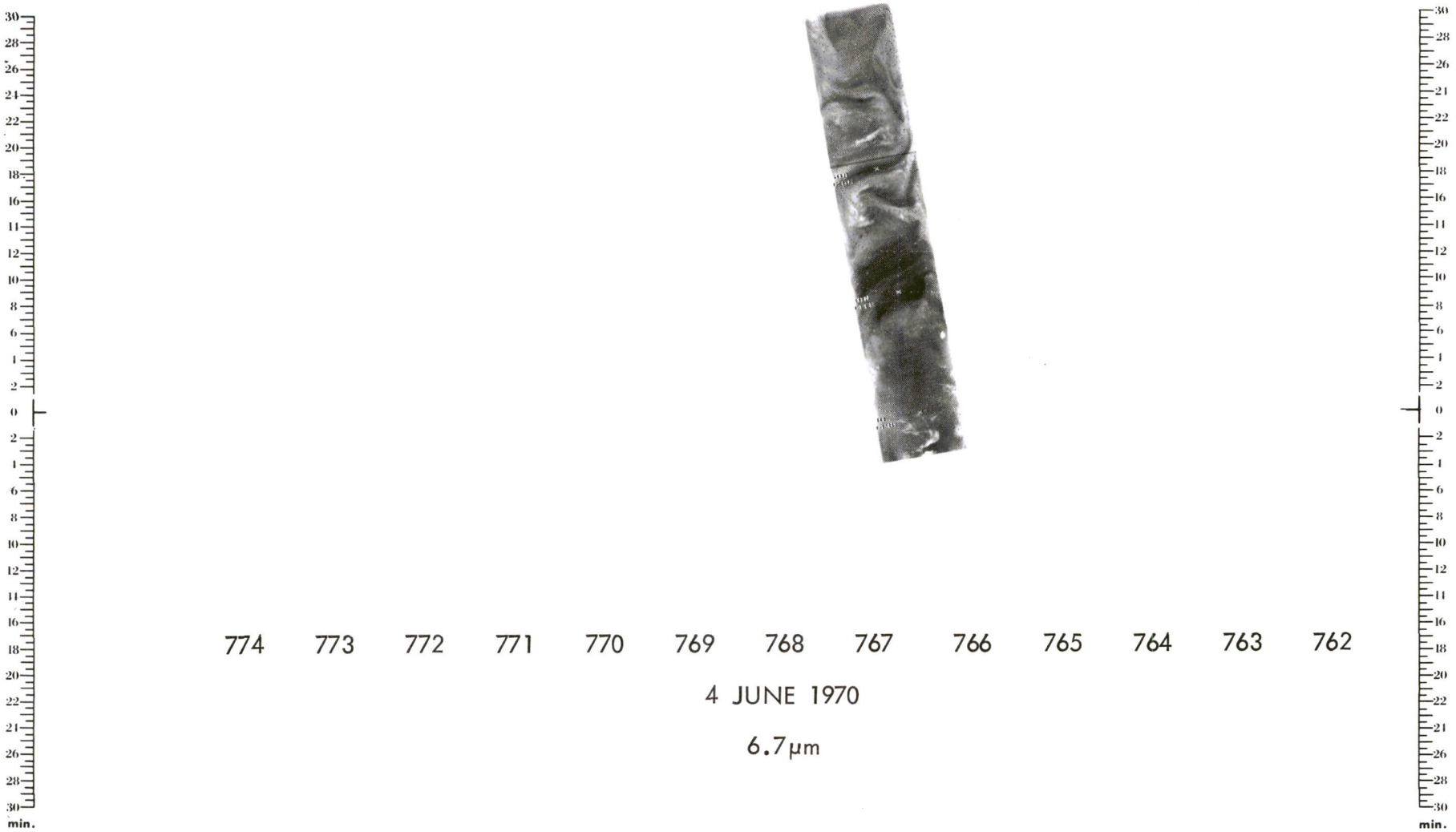
2 JUNE 1970

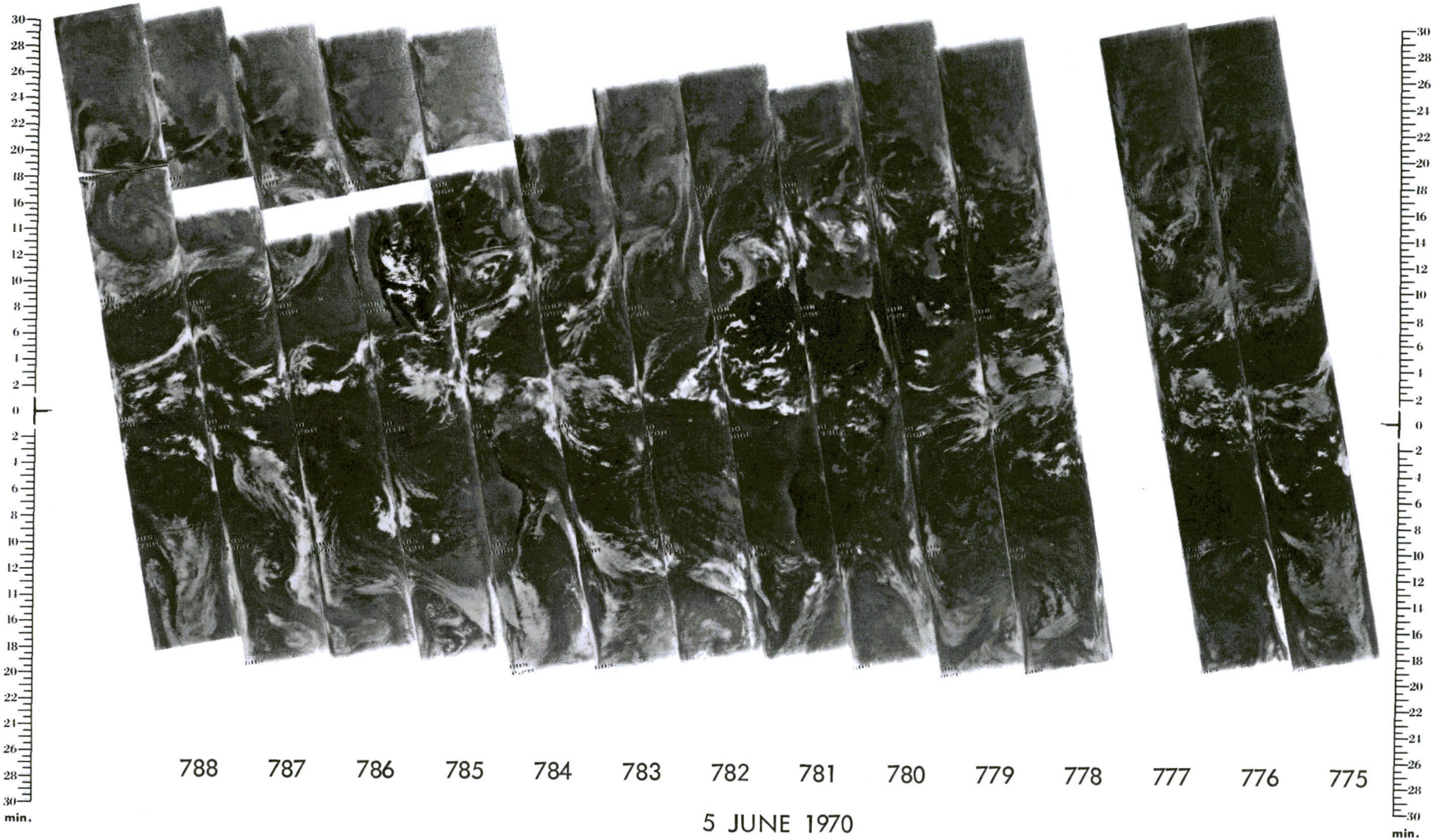
6.7μm

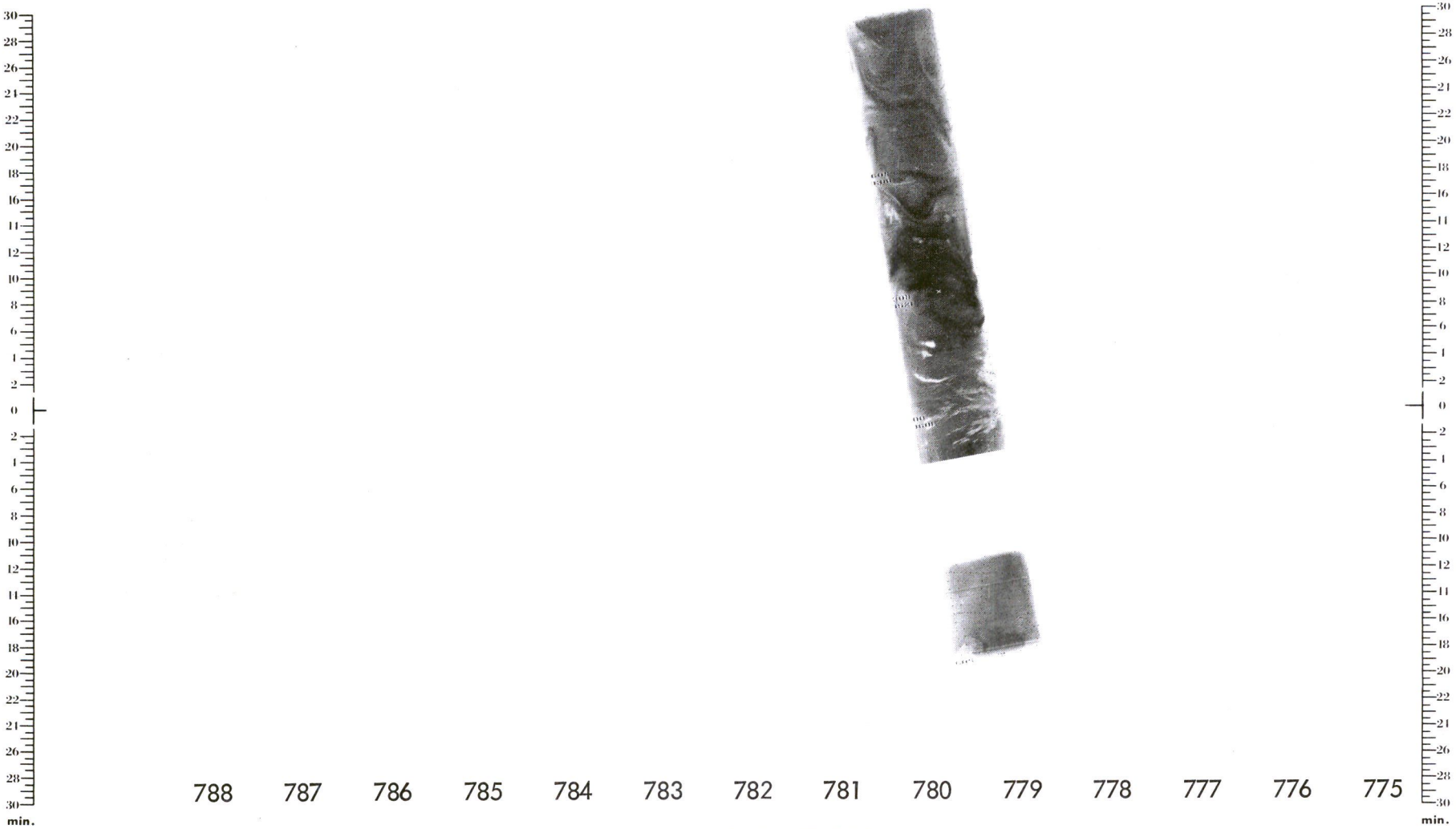

761
760
759
758
757
756
755
754
753
752
751
750
749
748
3 JUNE 1970
11.5μm
min.
min.

761 760 759 758 757 756 755 754 753 752 751 750 749 748
3 JUNE 1970
6.7μm
min.
min.


774 773 772 771 770 769 768 767 766 765 764 763 762
4 JUNE 1970
11.5μm
min.
min.

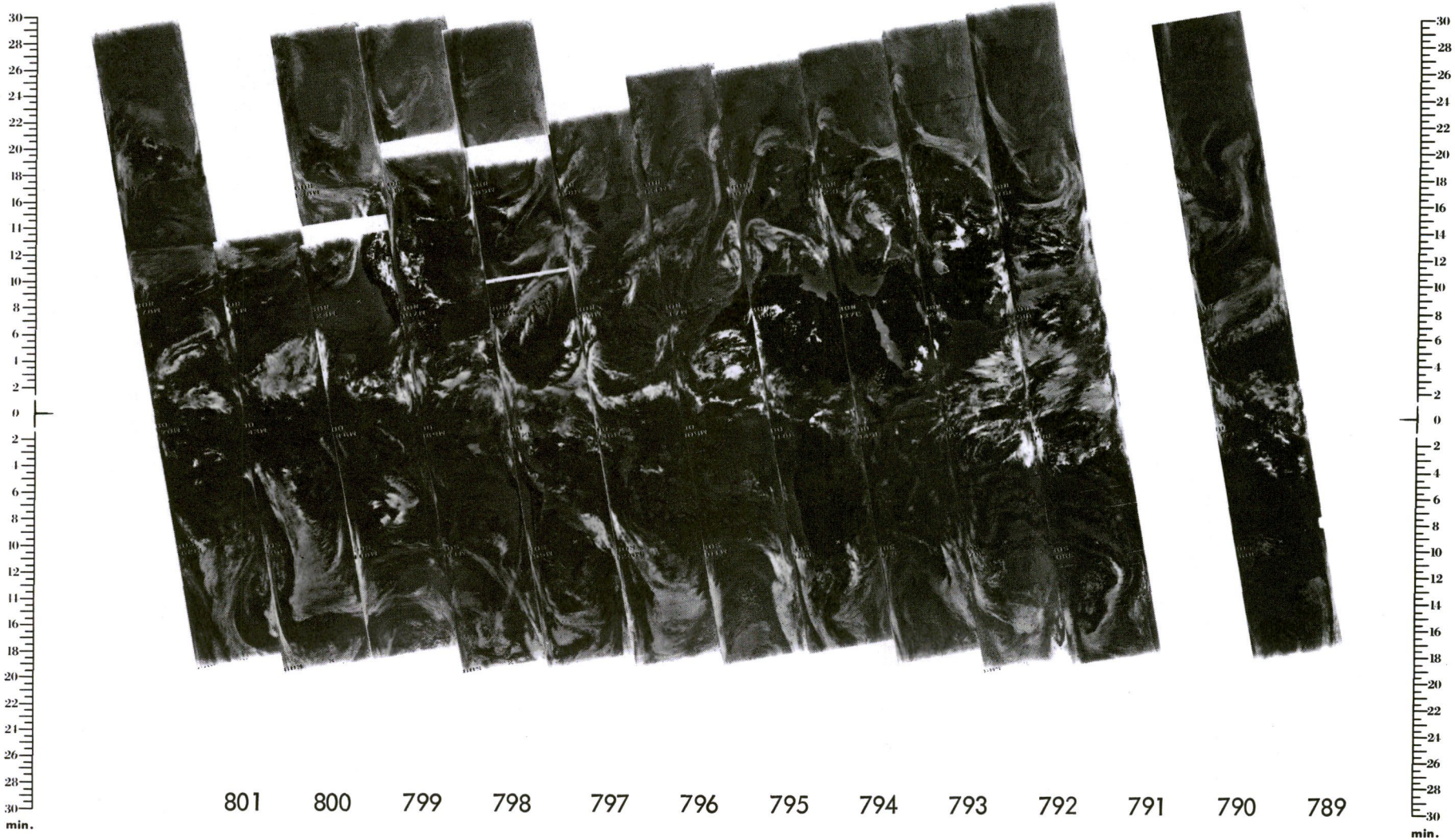

774 773 772 771 770 769 768 767 766 765 764 763 762
4 JUNE 1970
6.7μm
min.
min.


min.
788
787
786
785
784
783
782
781
780
779
778
777
776
775
5 JUNE 1970
11.5μm
min.



5 JUNE 1970

6.7μm



6 JUNE 1970

11.5μm

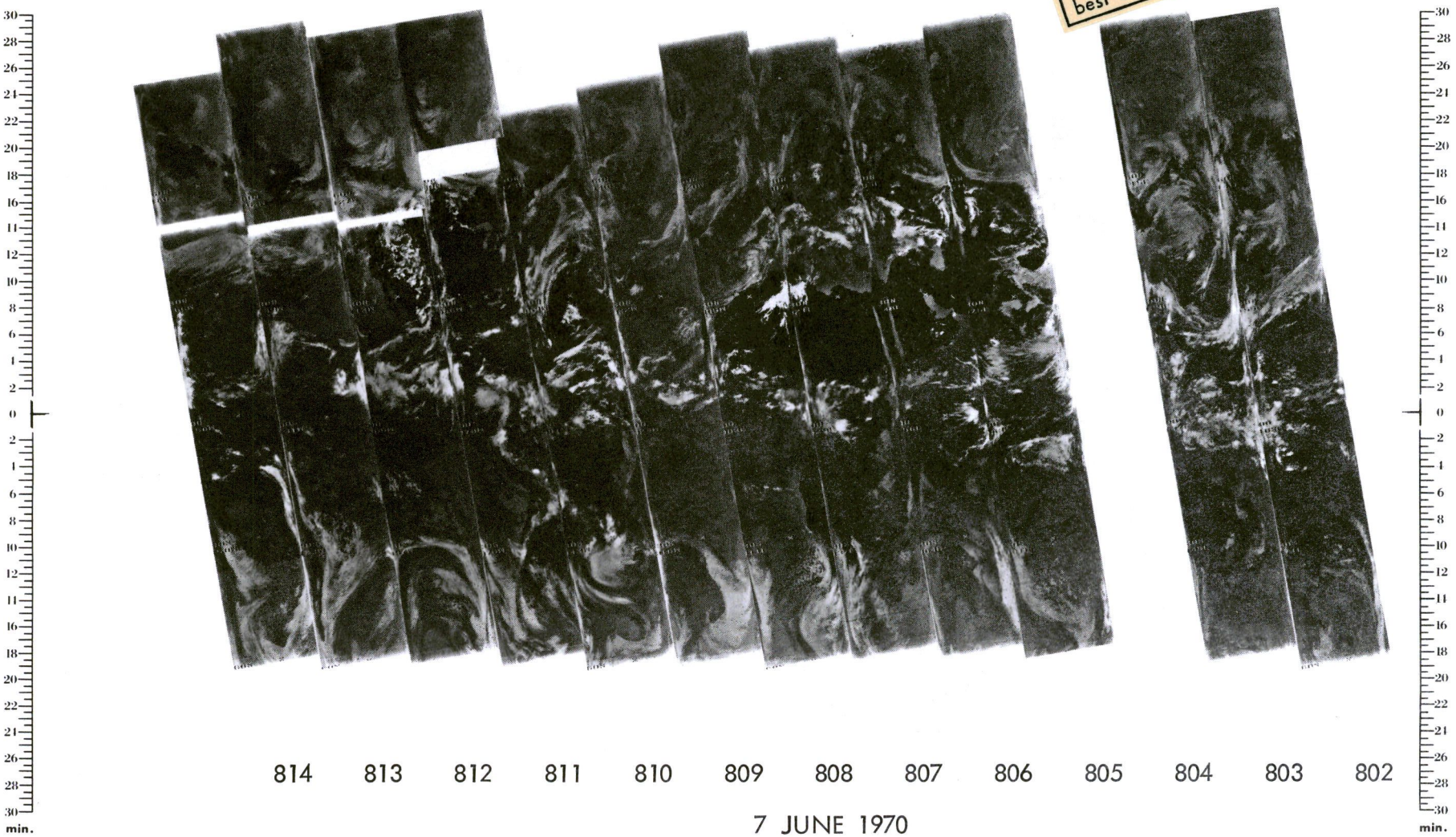


801 800 799 798 797 796 795 794 793 792 791 790 789

6 JUNE 1970

6.7μm

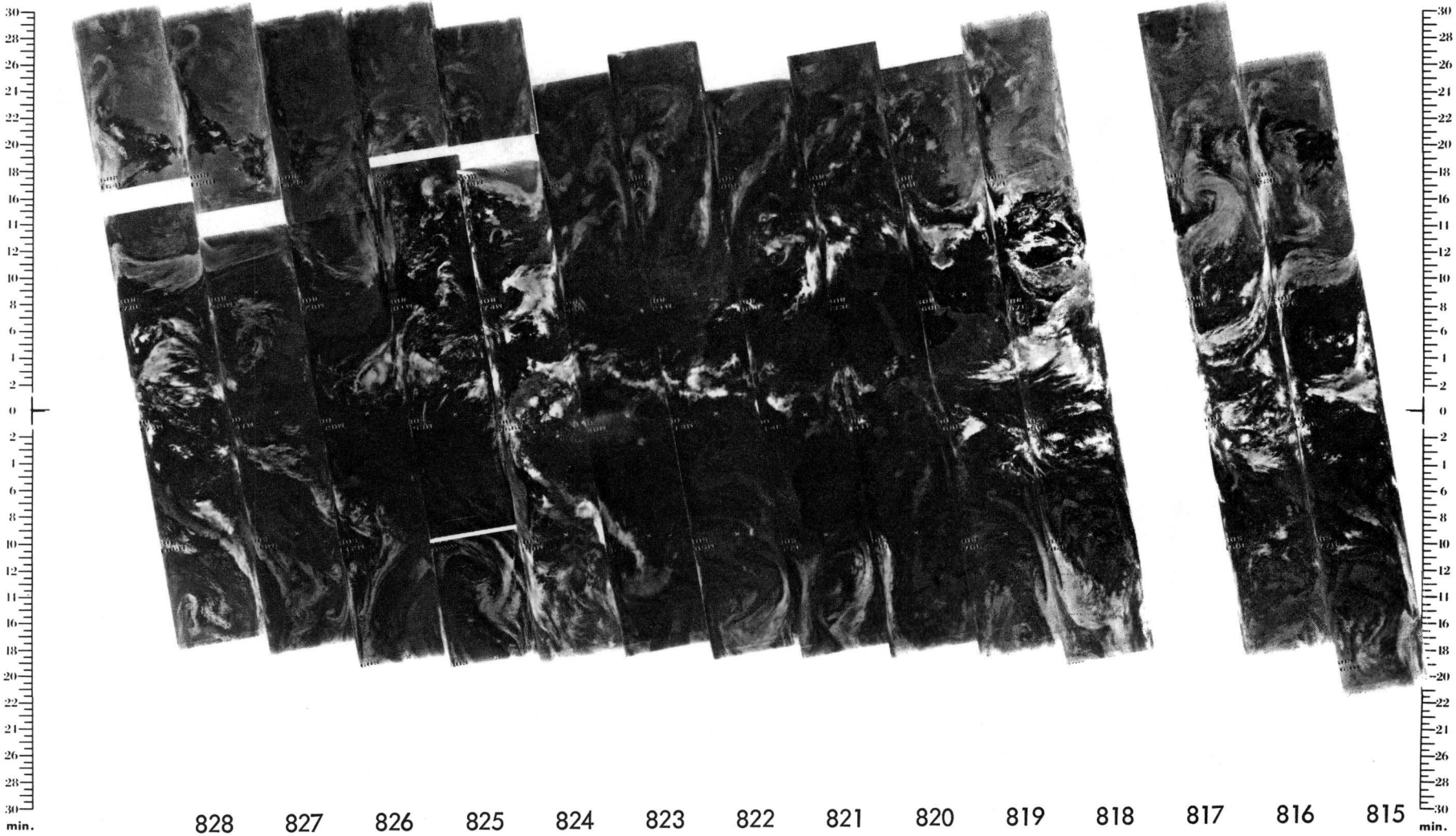
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7 JUNE 1970

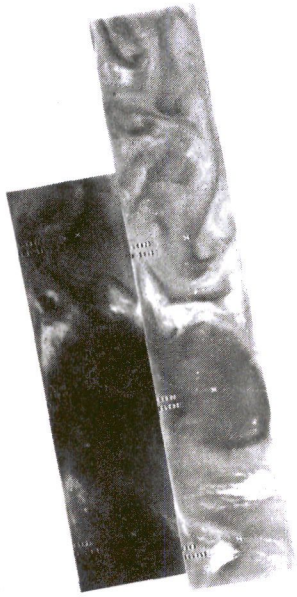
11.5μm

7 JUNE 1970 NO 6.7 μm DATA



8 JUNE 1970

11.5μm



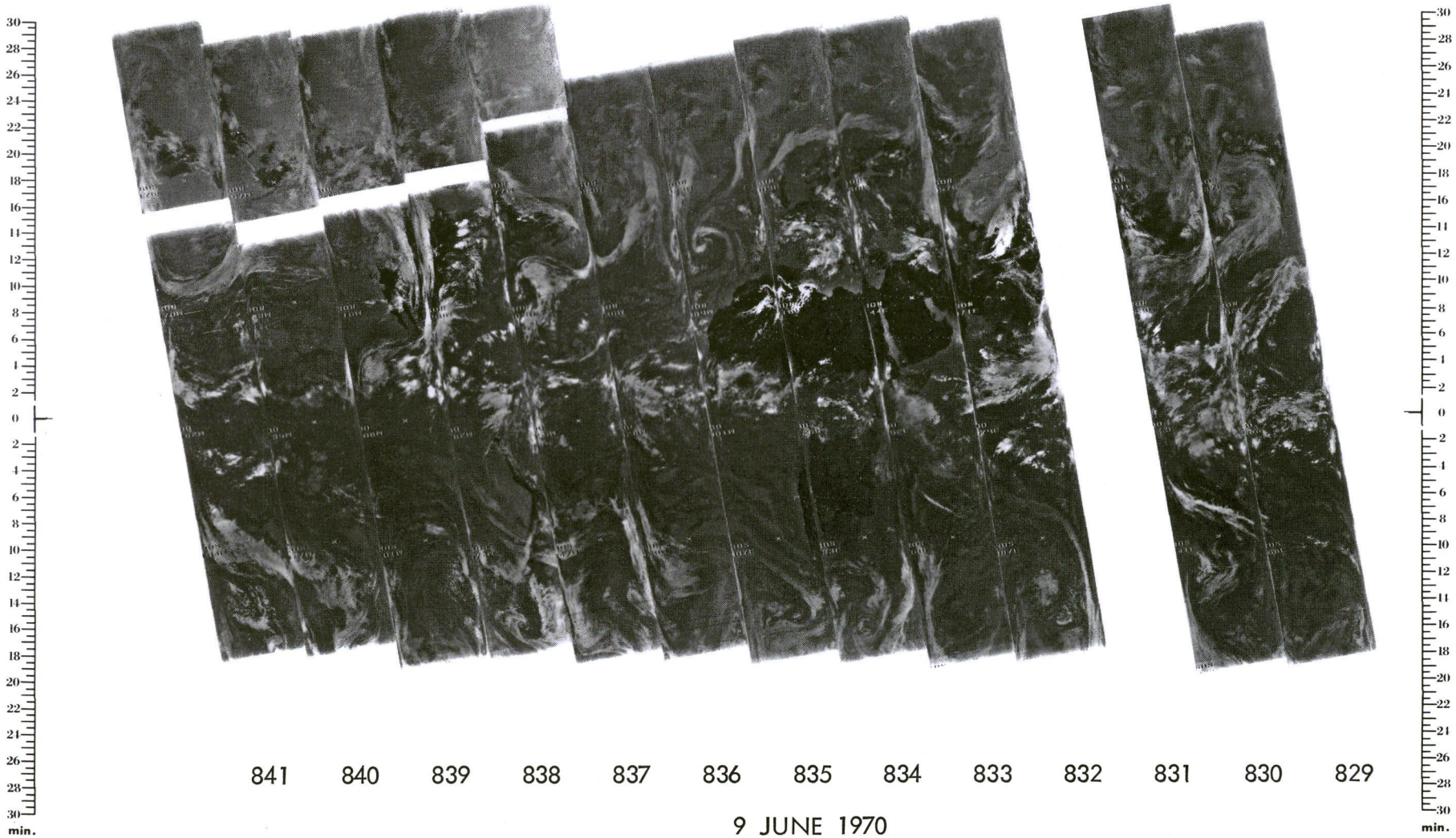
828 827 826 825 824 823 822 821 820 819 818 817 816 815

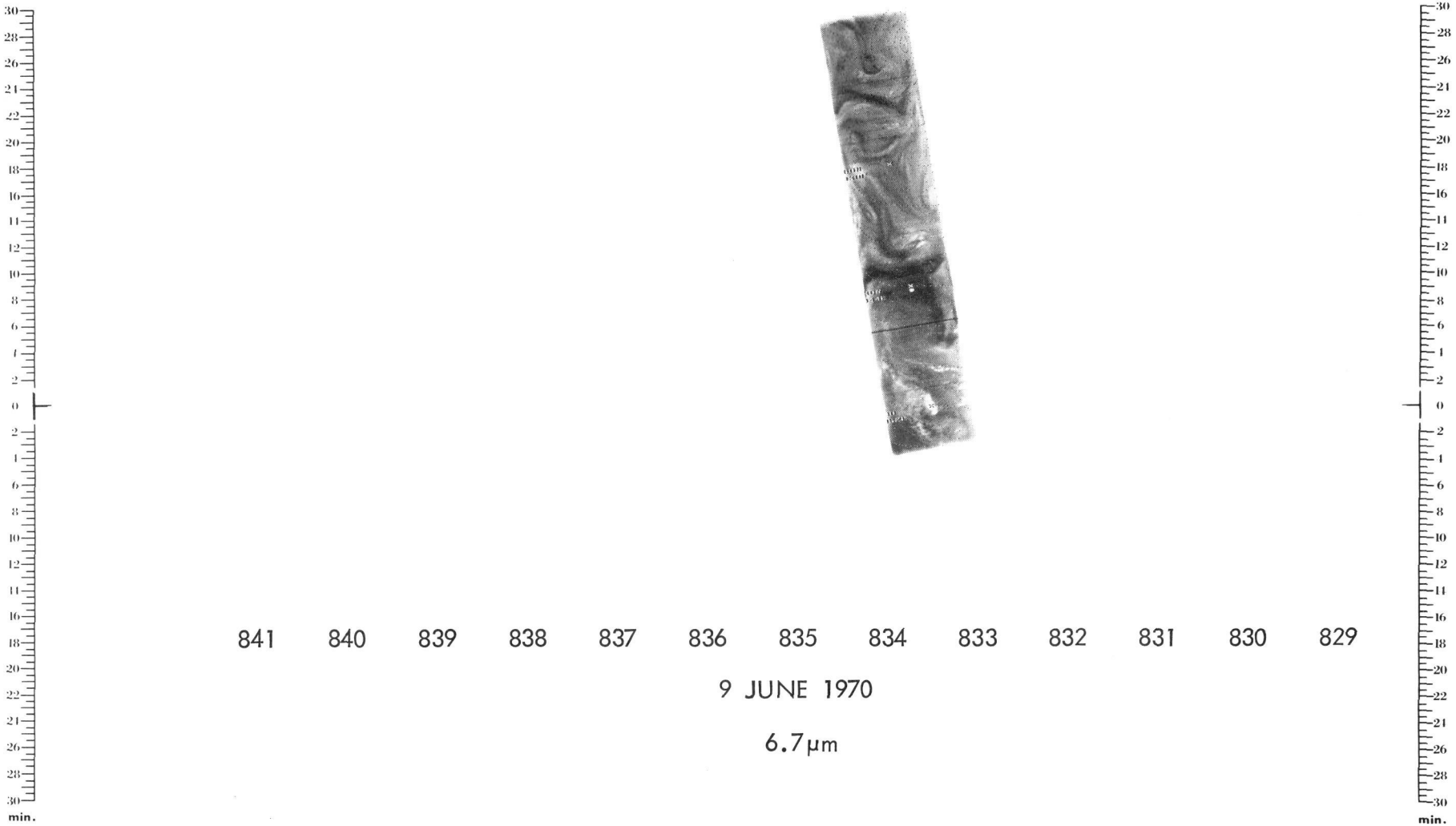
8 JUNE 1970

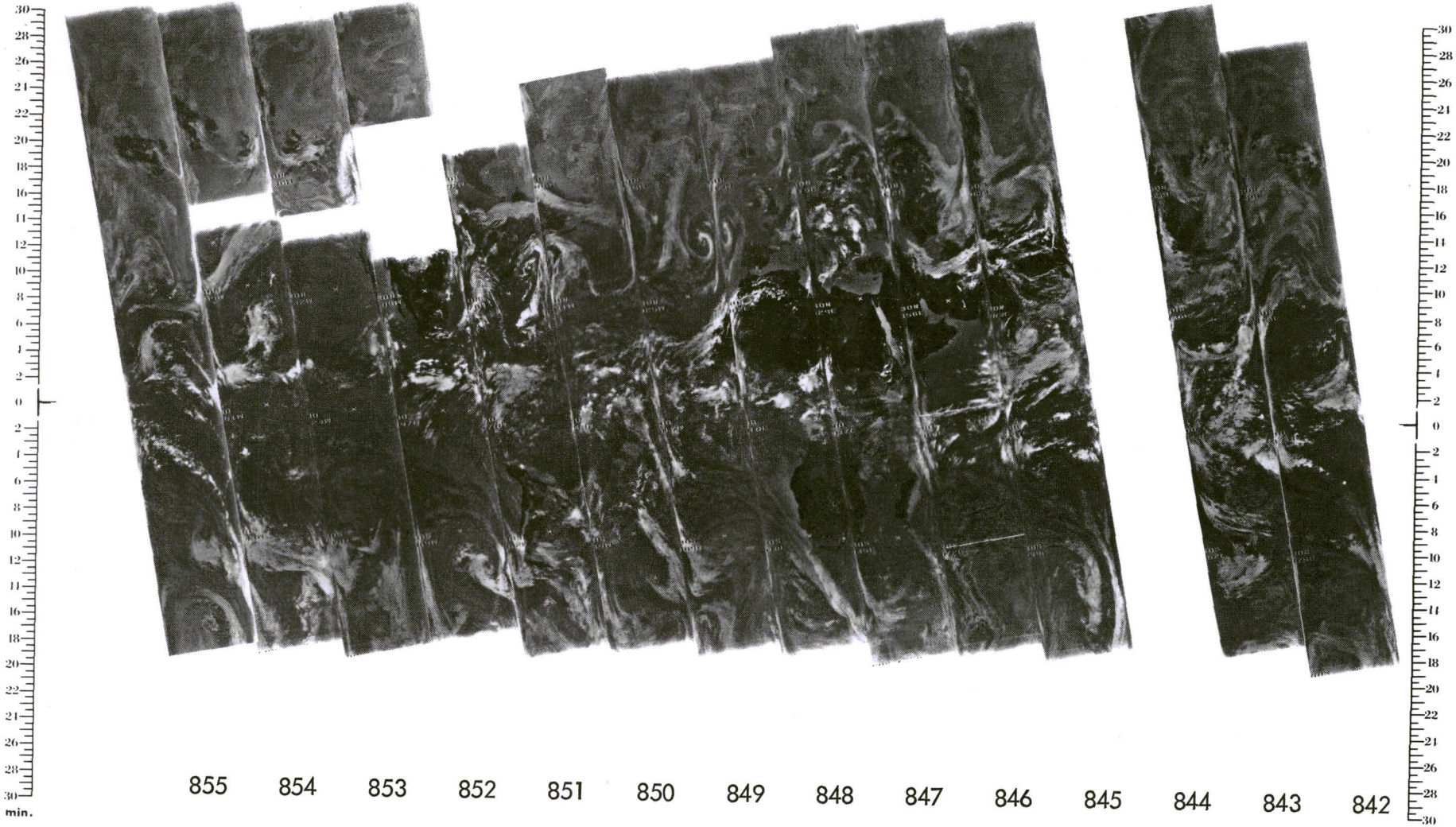
6.7μm

min.

min.

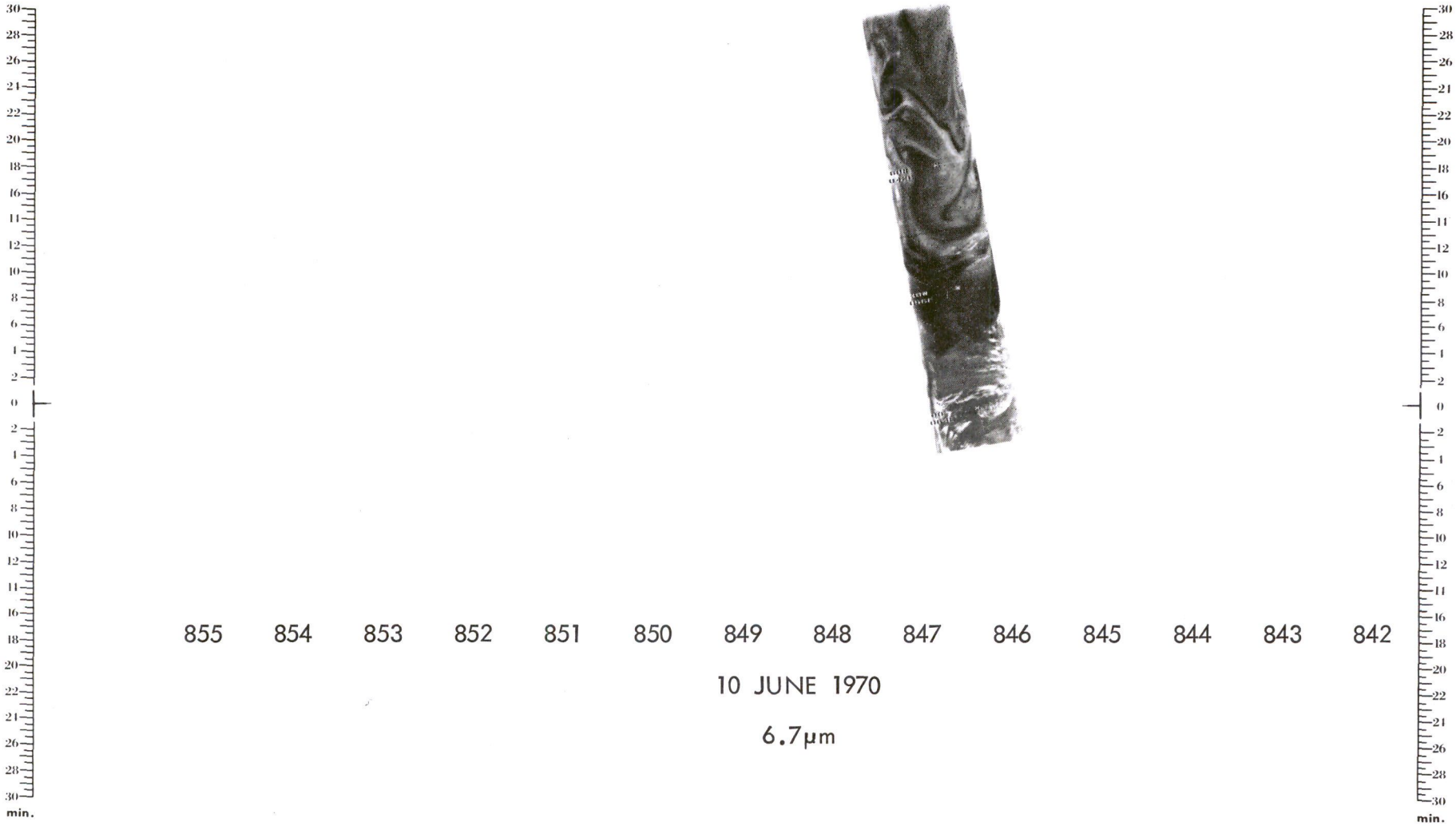

841 840 839 838 837 836 835 834 833 832 831 830 829
9 JUNE 1970
11.5μm
min.
min.

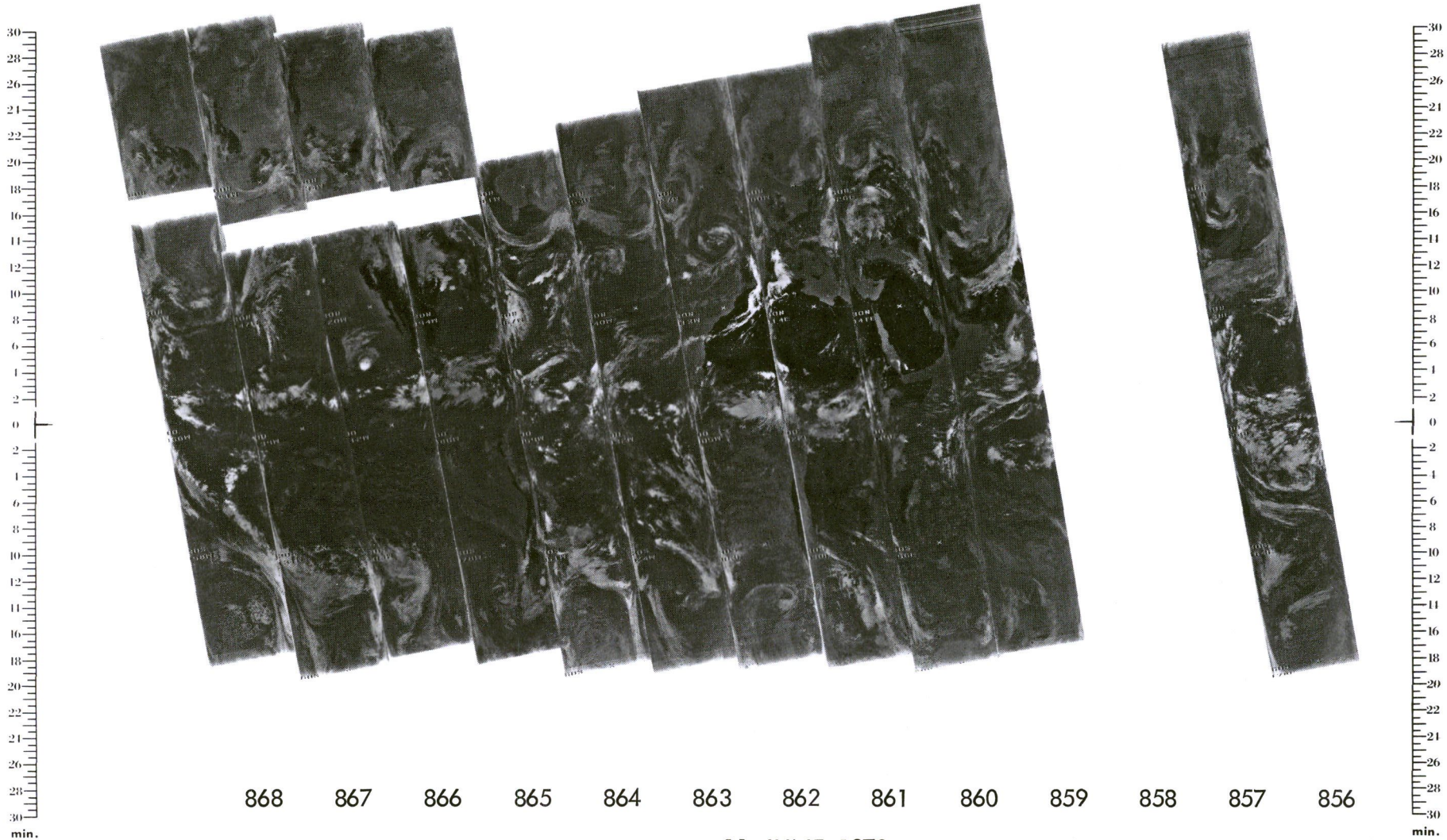

841 840 839 838 837 836 835 834 833 832 831 830 829
9 JUNE 1970
6.7μm
min.
min.



10 JUNE 1970

11.5μm


855 854 853 852 851 850 849 848 847 846 845 844 843 842
10 JUNE 1970
6.7μm
min.
min.



11 JUNE 1970

11.5μm



868 867 866 865 864 863 862 861 860 859 858 857 856

11 JUNE 1970

6.7μm

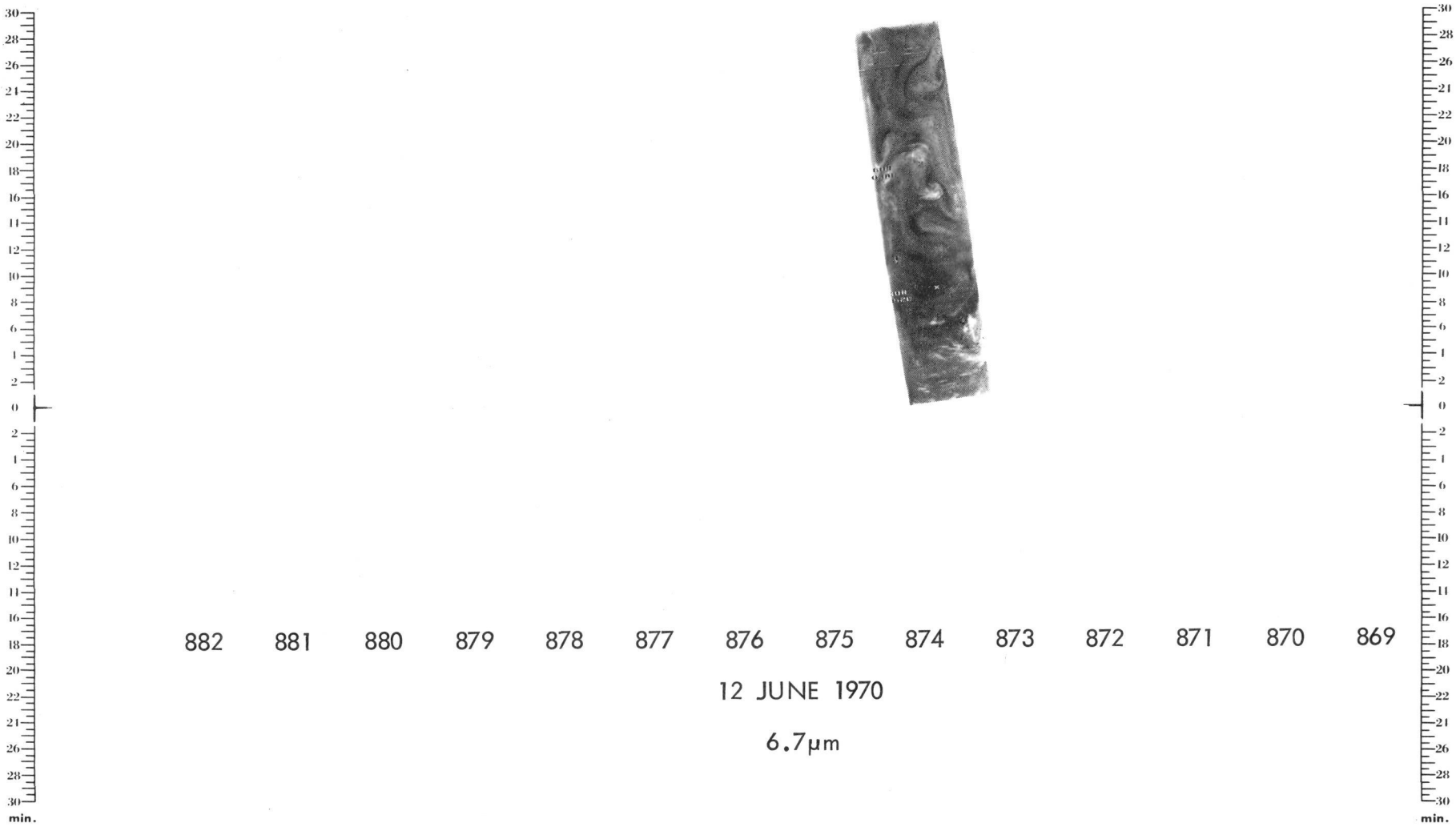
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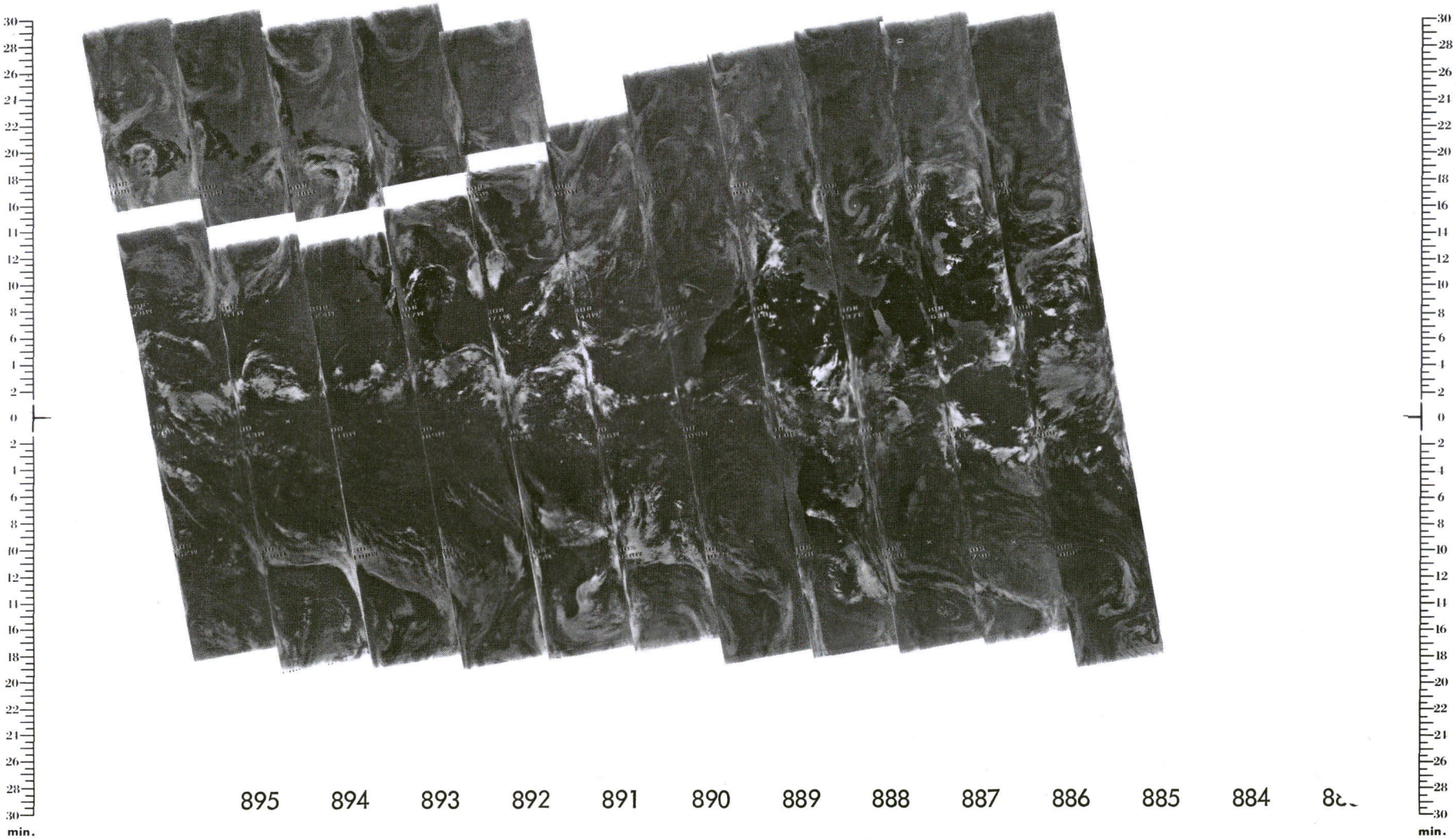


882 881 880 879 878 877 876 875 874 873 872 871 870 869

12 JUNE 1970

11.5μm


882 881 880 879 878 877 876 875 874 873 872 871 870 869
12 JUNE 1970
6.7μm
min.
min.



895 894 893 892 891 890 889 888 887 886 885 884

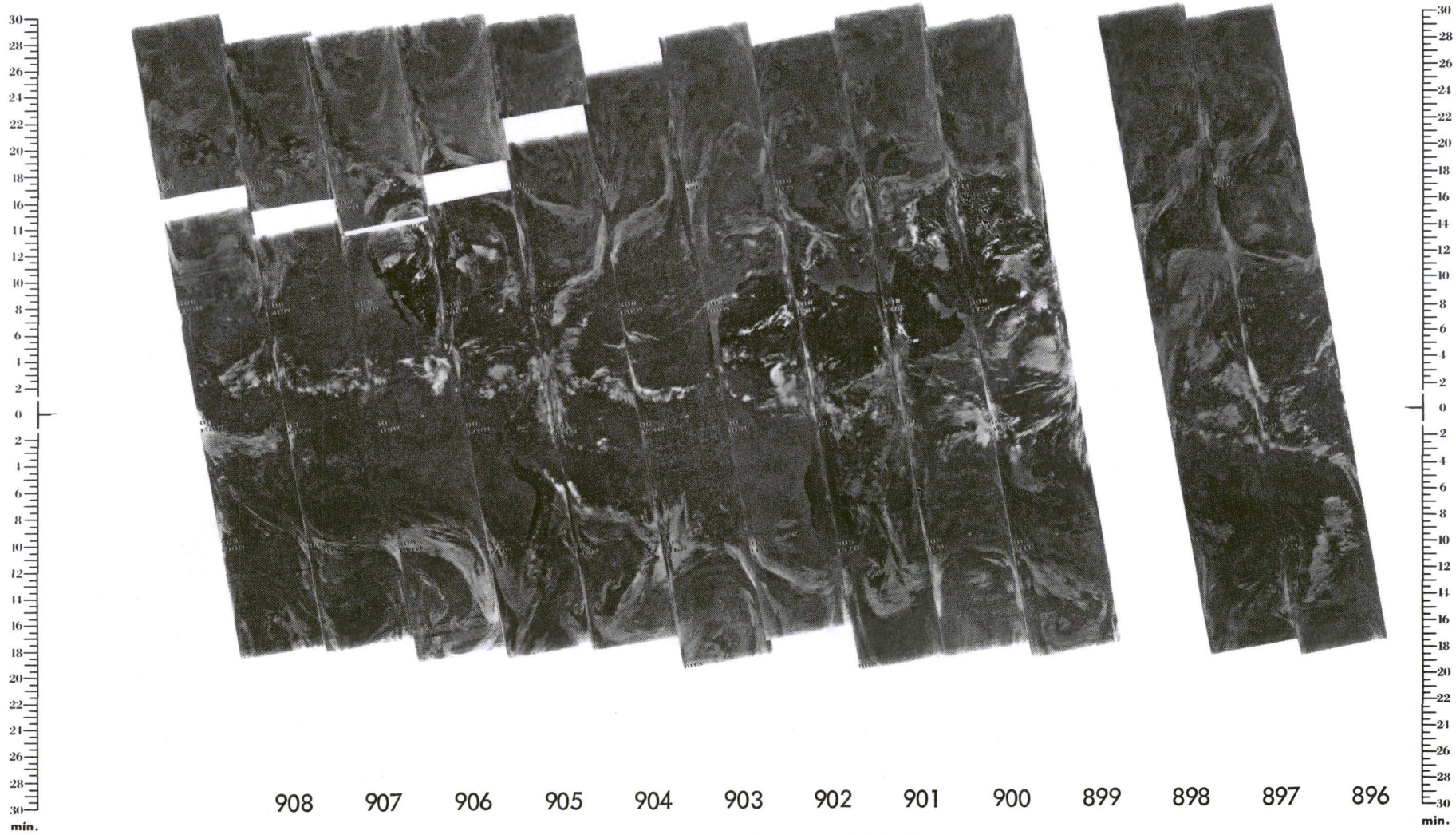
13 JUNE 1970

11.5μm

895 894 893 892 891 890 889 888 887 886 885 884 883

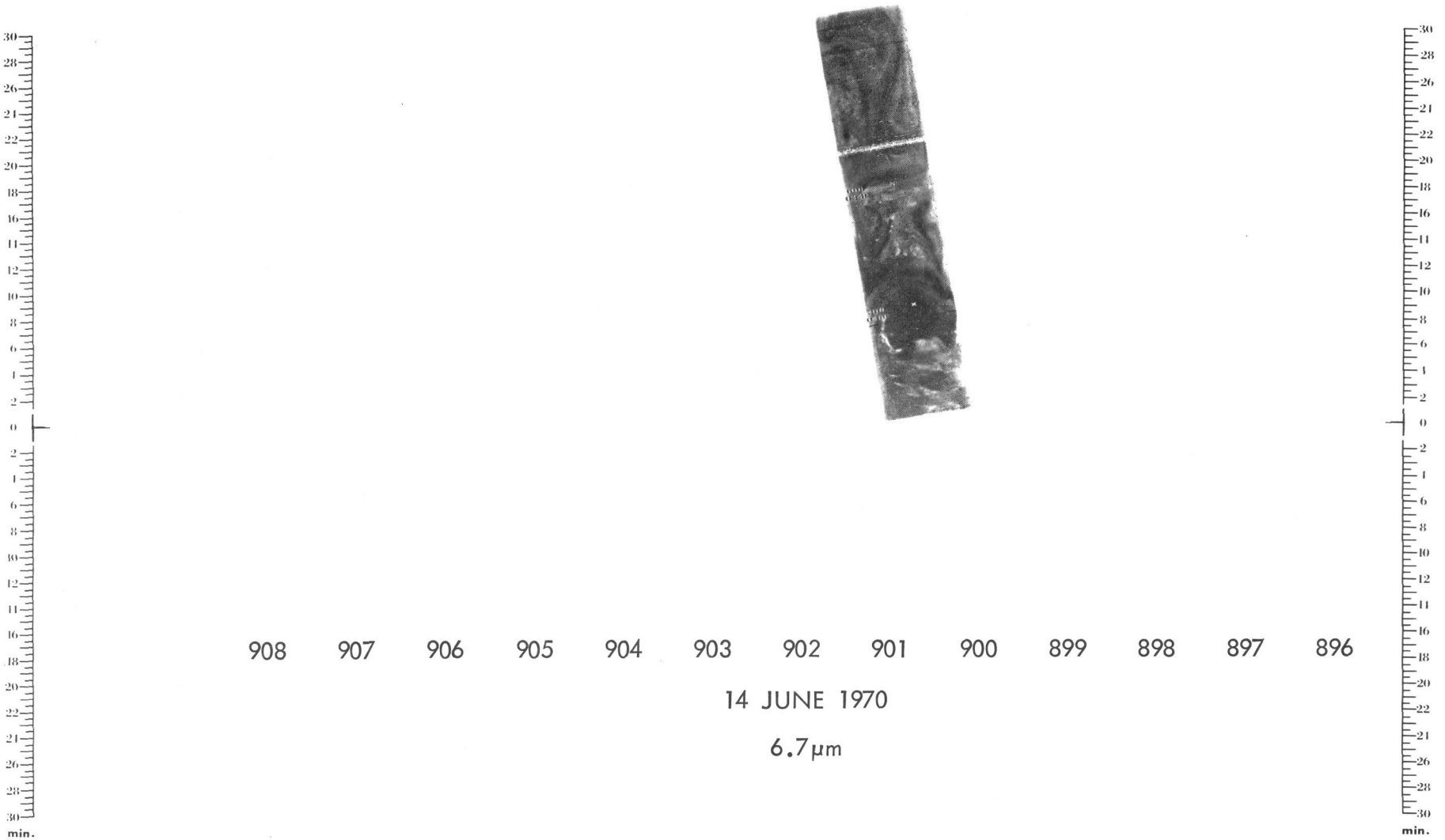
13 JUNE 1970

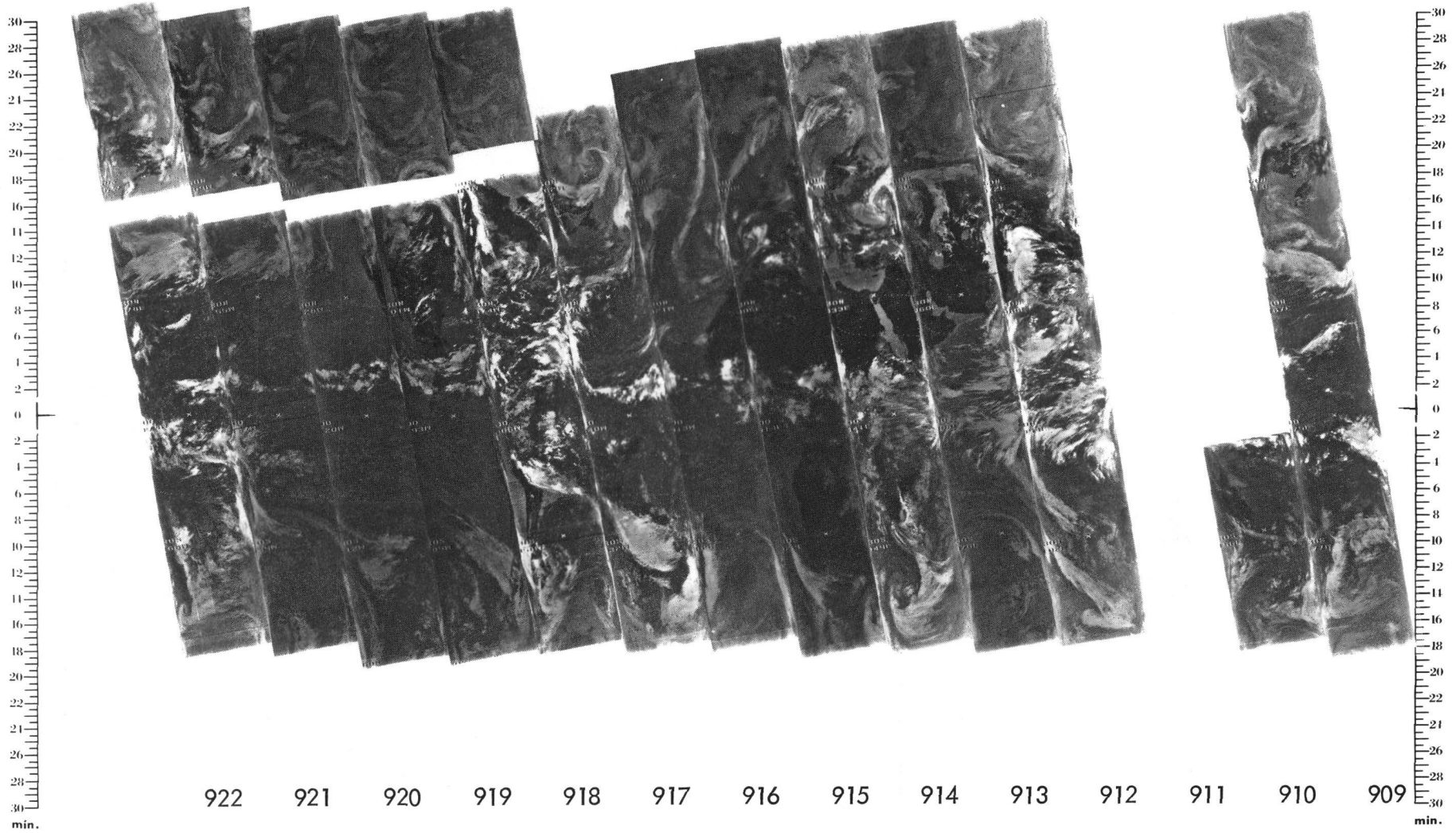
6.7μm



14 JUNE 1970

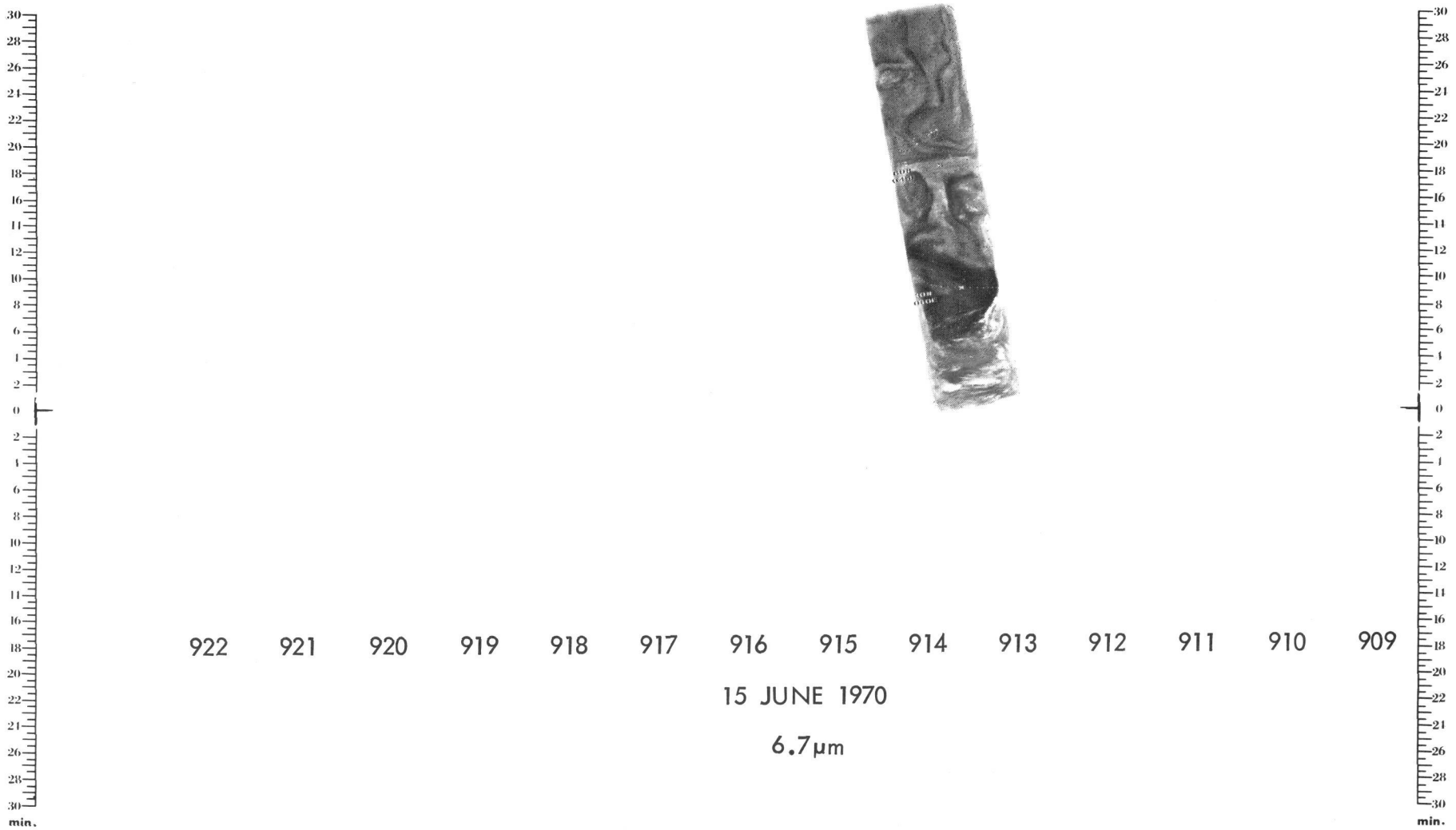
11.5μm

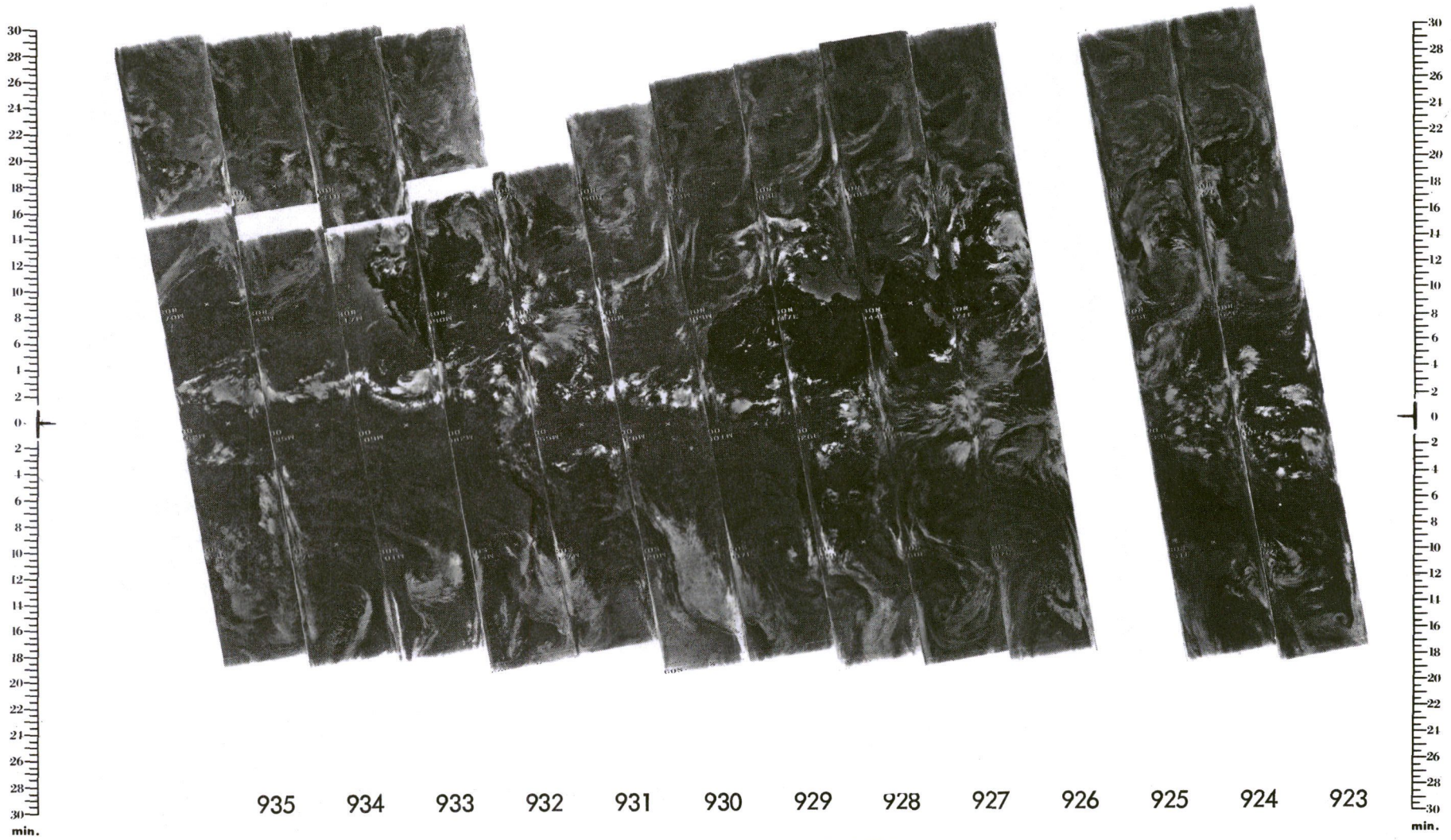

908 907 906 905 904 903 902 901 900 899 898 897 896
14 JUNE 1970
6.7μm
min.
min.



15 JUNE 1970

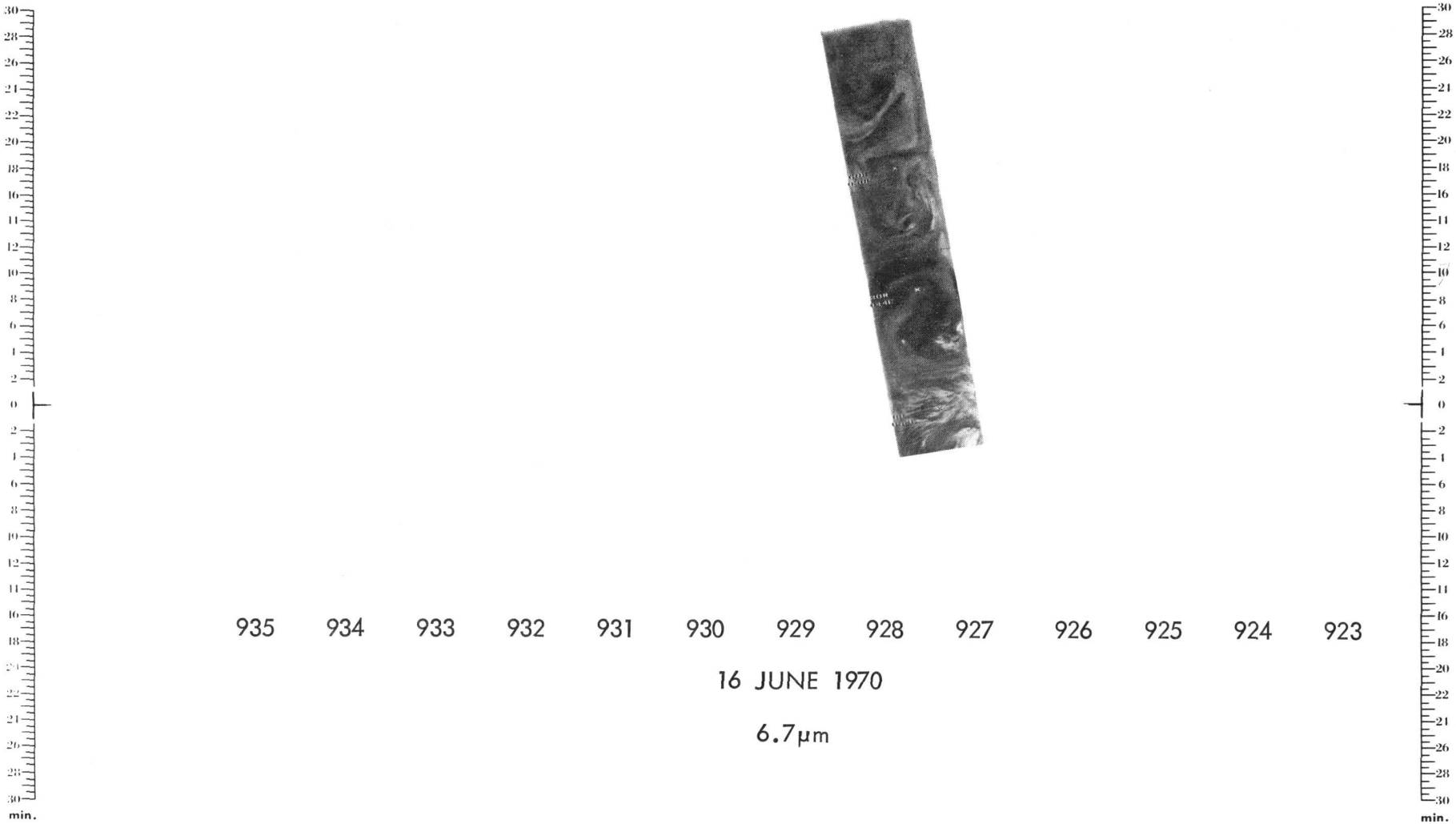
11.5μm

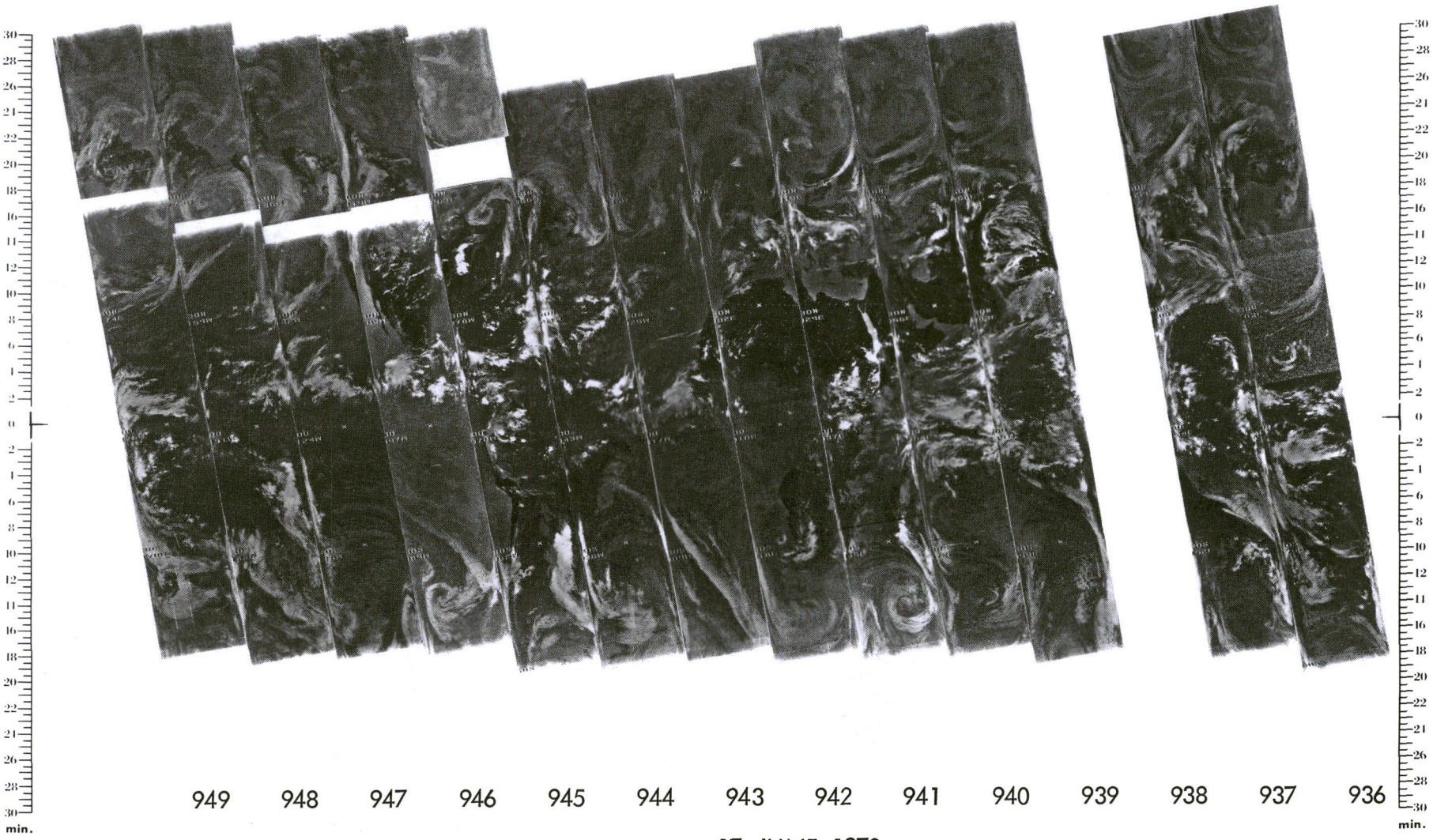

922 921 920 919 918 917 916 915 914 913 912 911 910 909
15 JUNE 1970
6.7μm
min.
min.



16 JUNE 1970

11.5μm

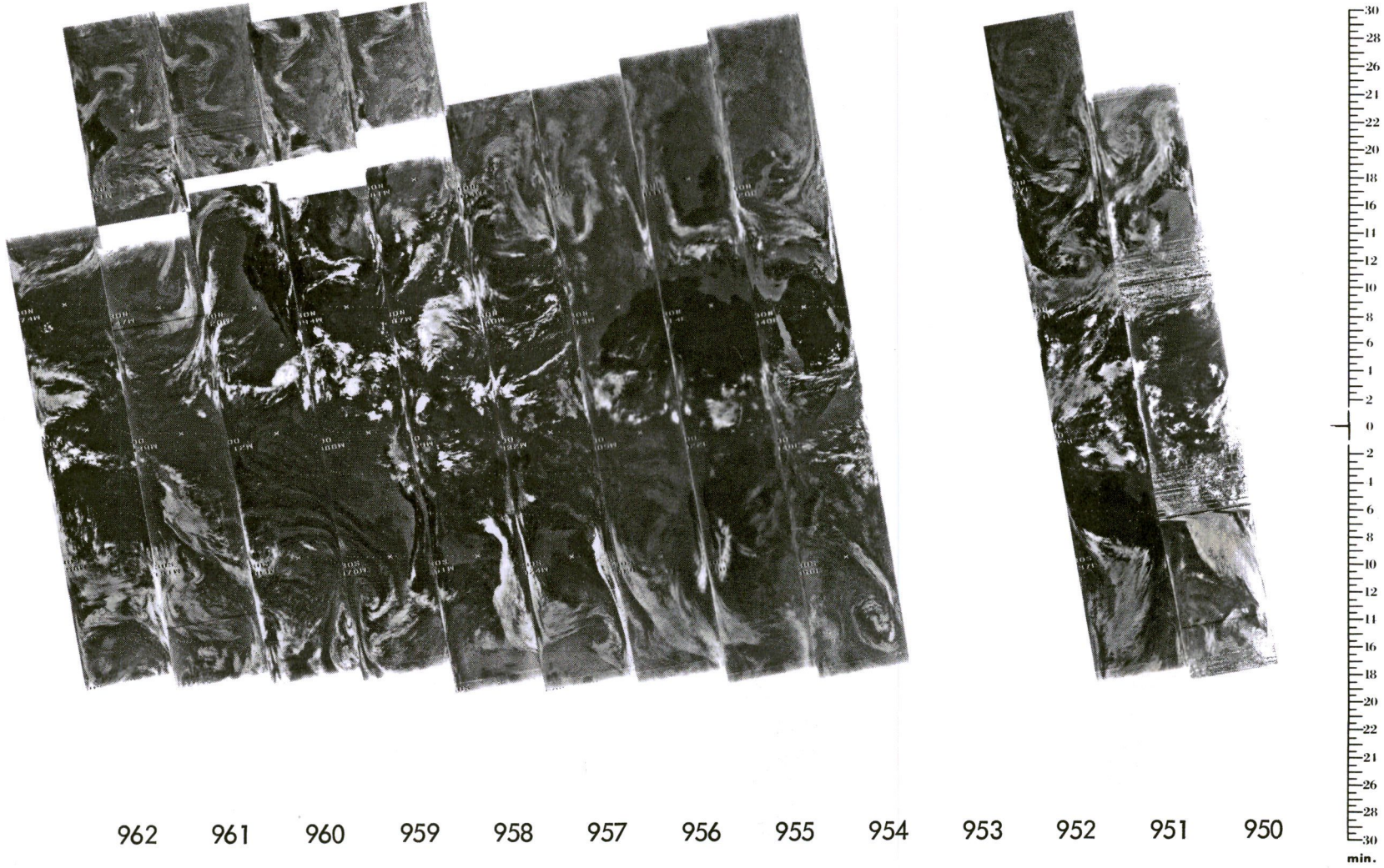

935 934 933 932 931 930 929 928 927 926 925 924 923
16 JUNE 1970
6.7μm
min.
min.



17 JUNE 1970

11.5μm

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18 JUNE 1970

11.5μm



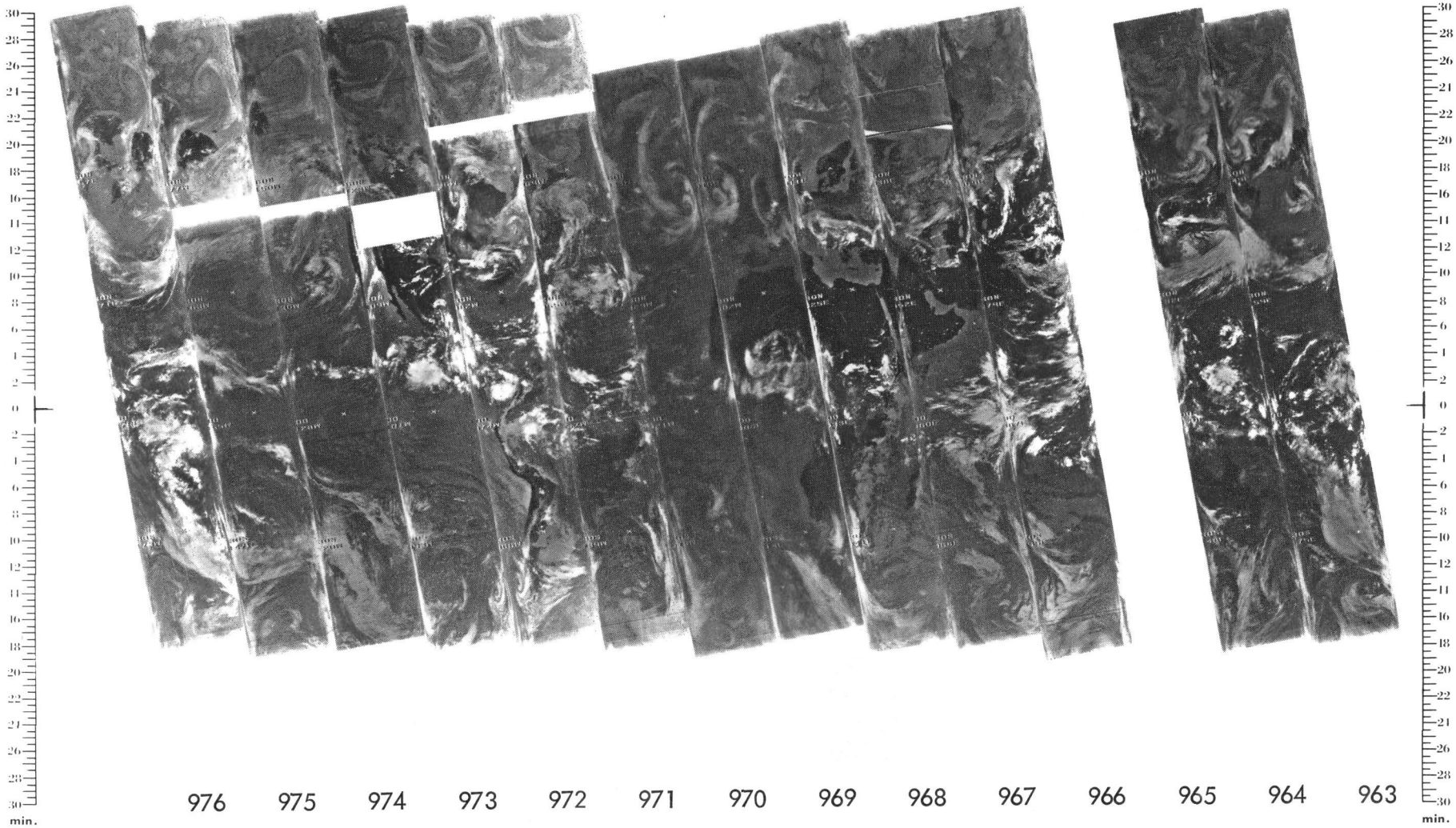
962 961 960 959 958 957 956 955 954 953 952 951 950

18 JUNE 1970

6.7μm

min.

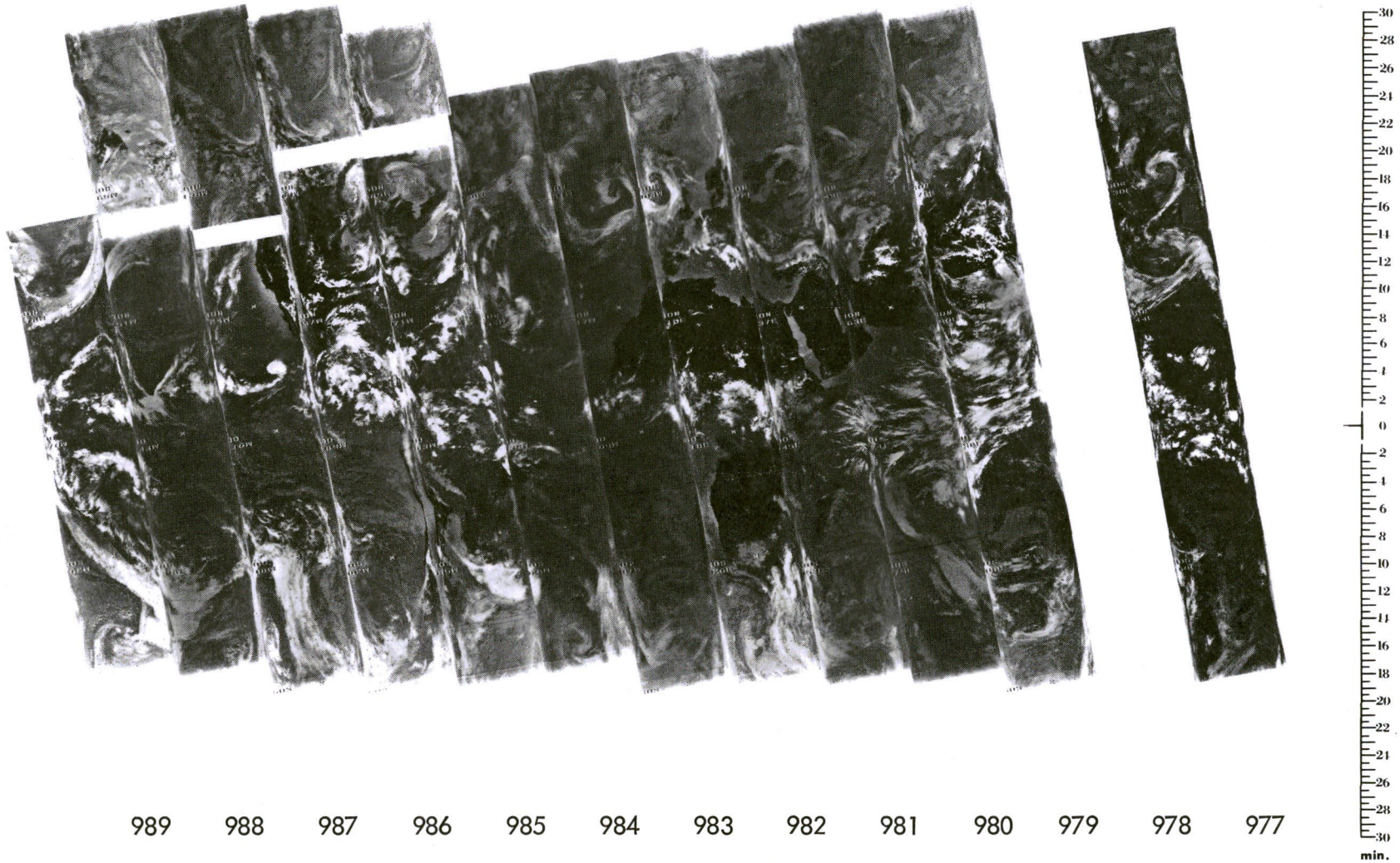
min.



19 JUNE 1970

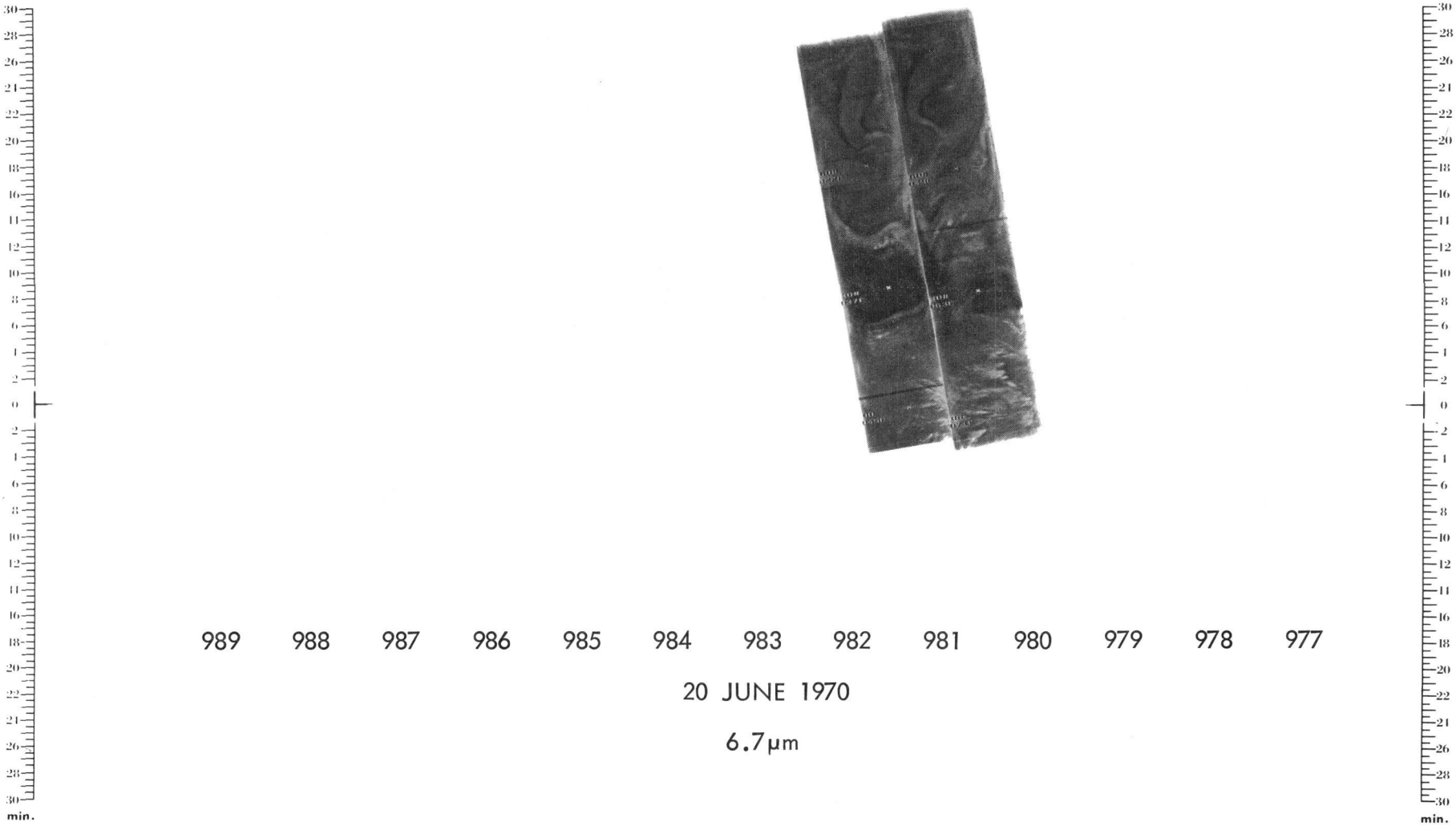
11.5μm

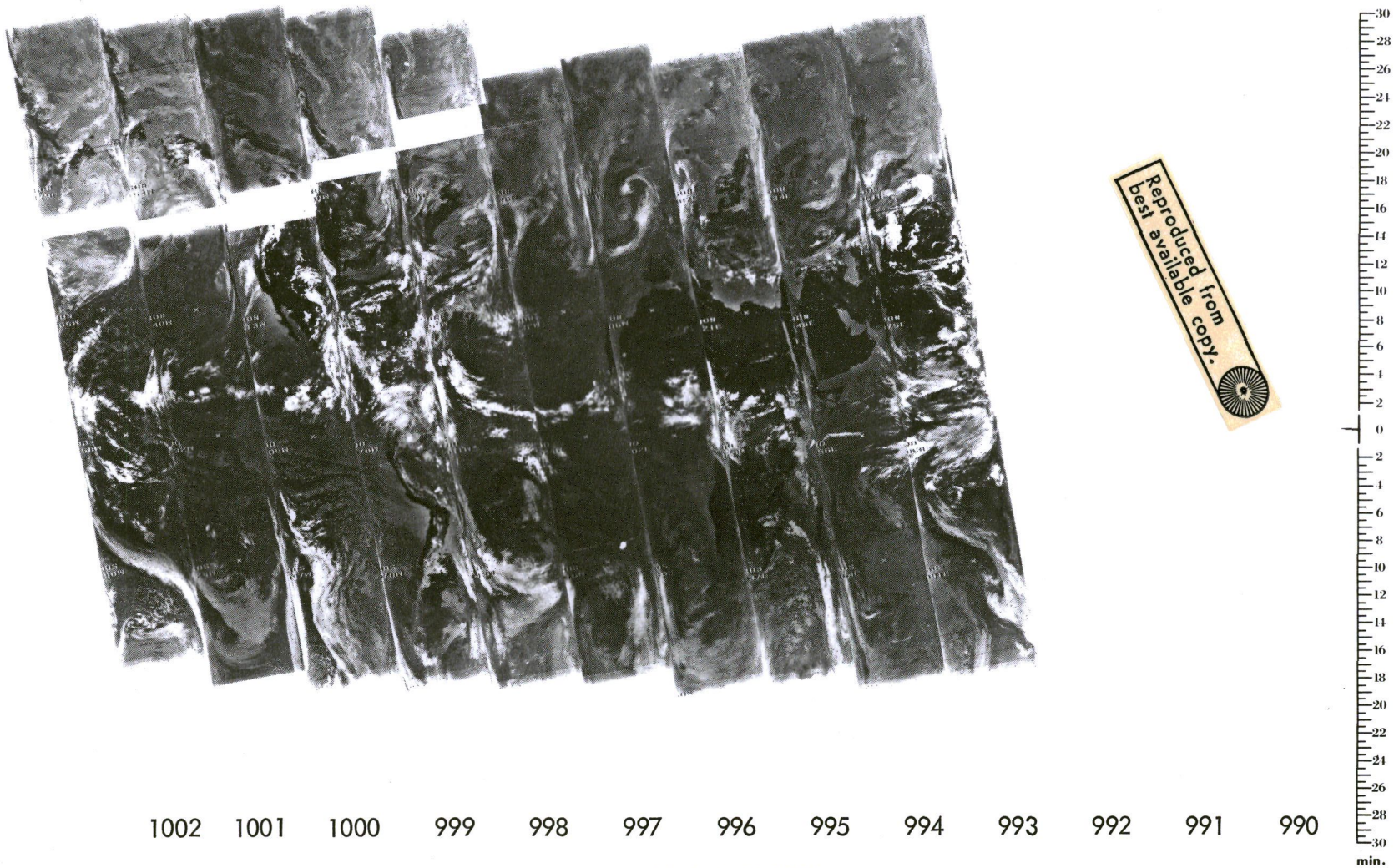
19 JUNE 1970 NO 6.7 μm DATA



20 JUNE 1970

11.5μm

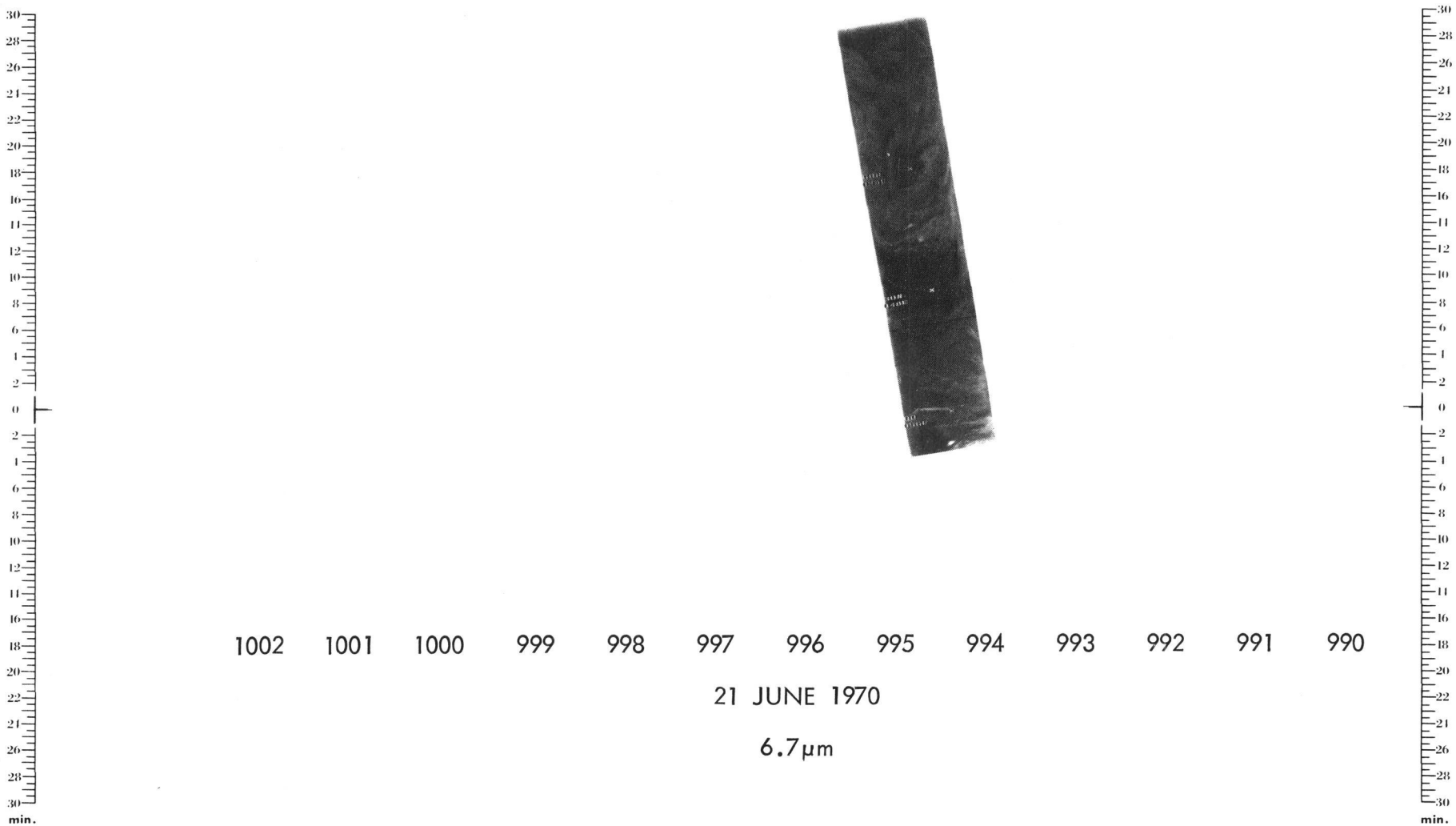

989 988 987 986 985 984 983 982 981 980 979 978 977
20 JUNE 1970
6.7μm
min.
min.

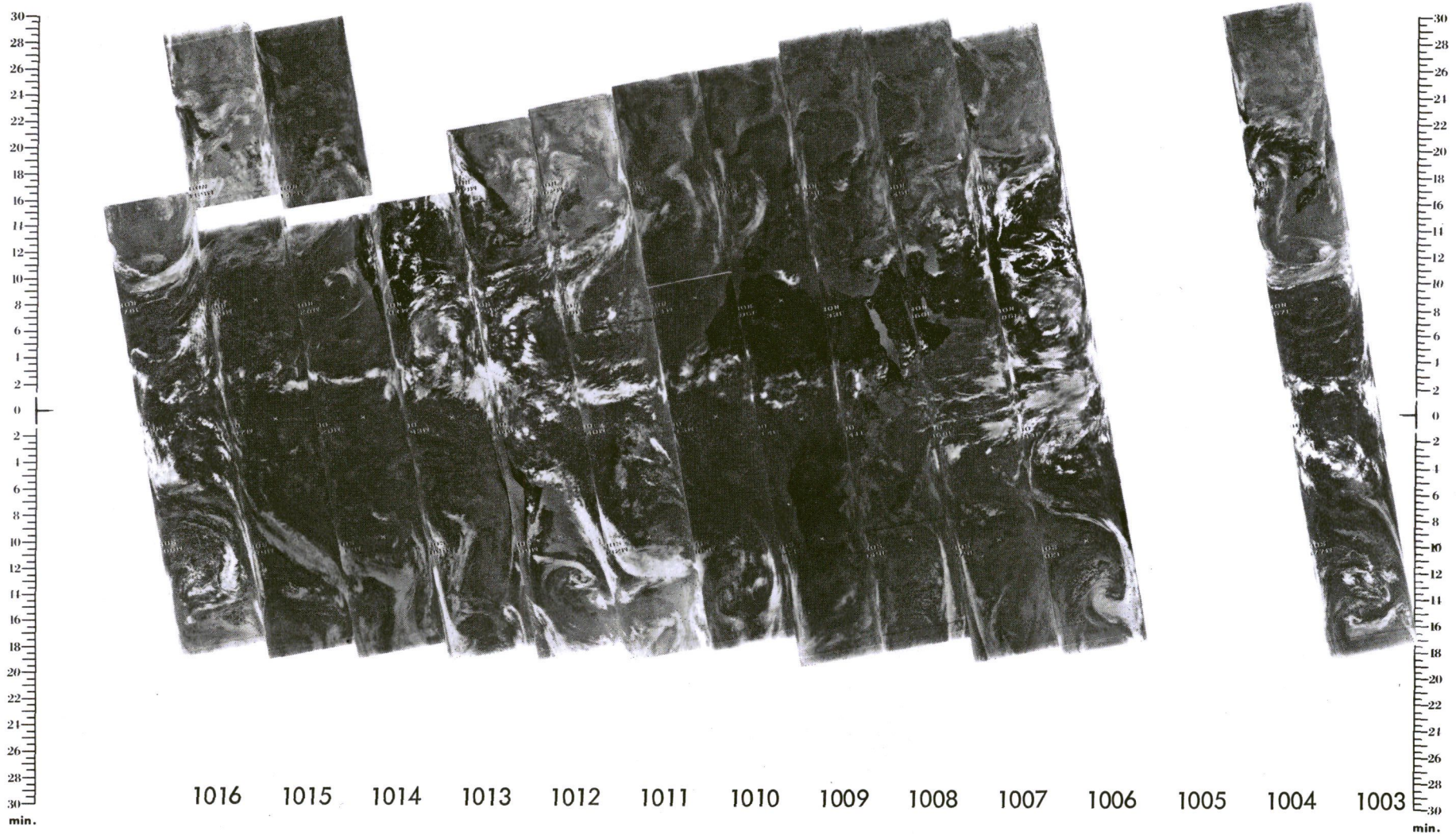


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21 JUNE 1970

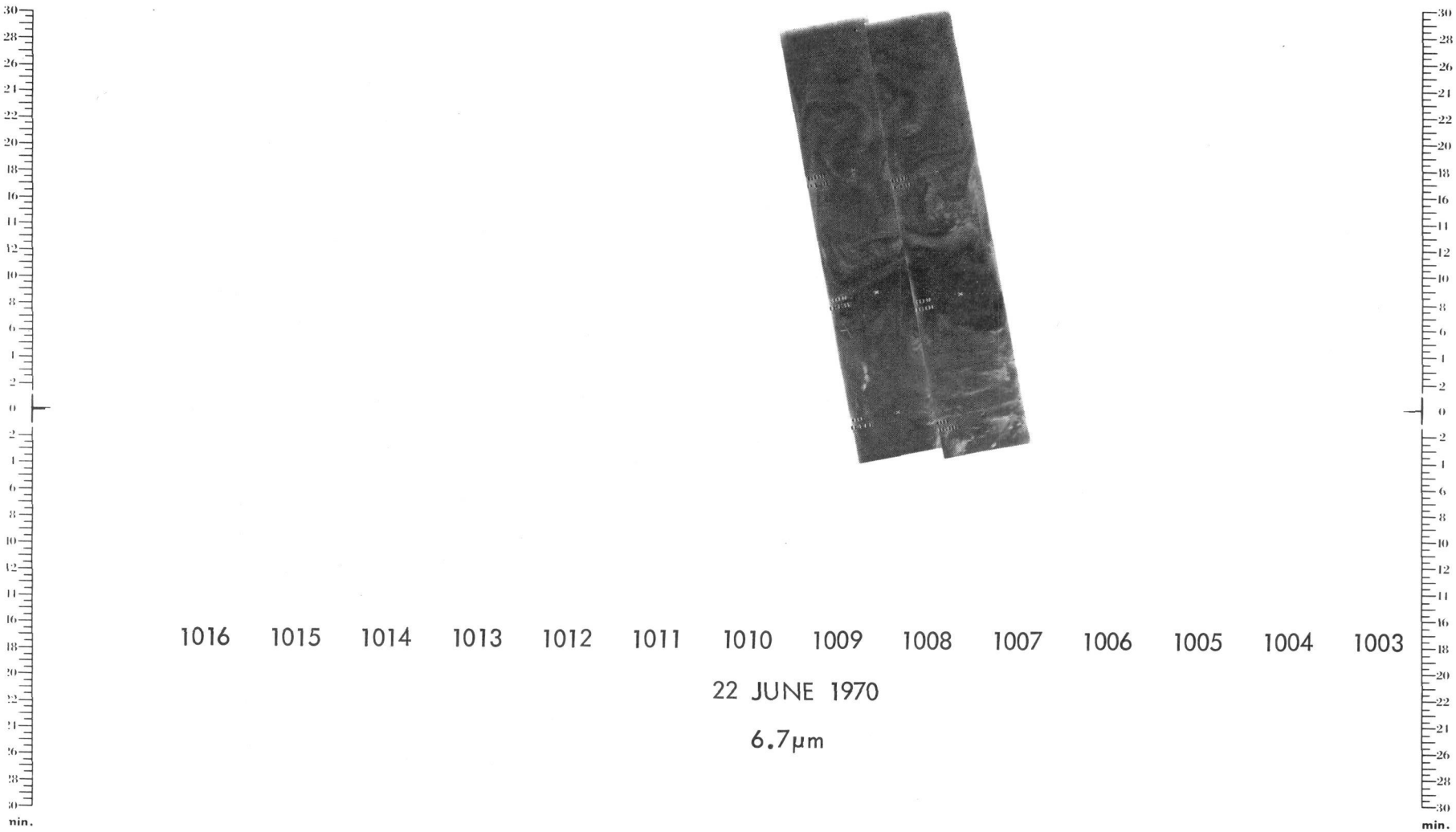
11.5μm

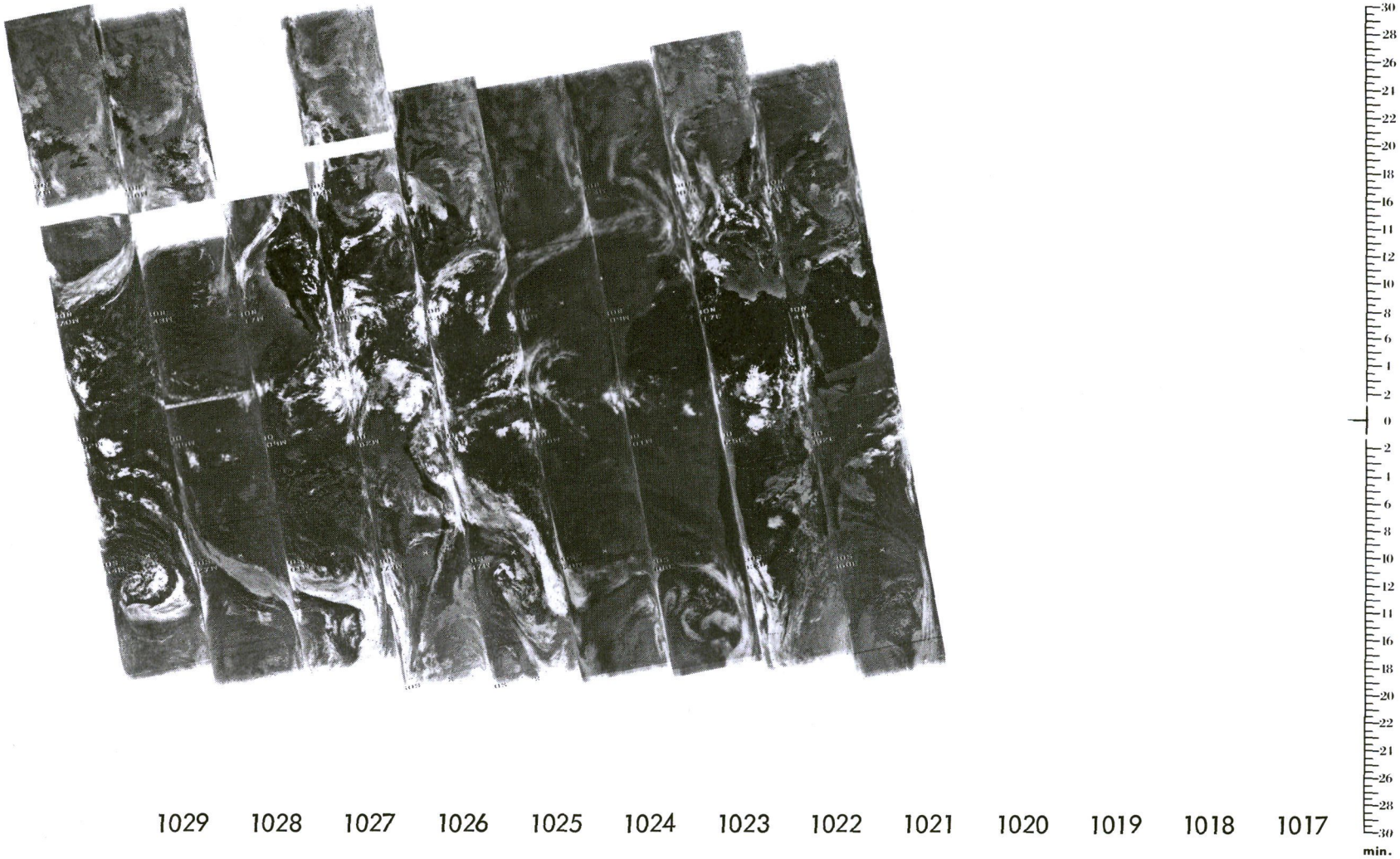

1002 1001 1000 999 998 997 996 995 994 993 992 991 990
21 JUNE 1970
6.7μm
min.
min.



22 JUNE 1970

11.5μm


1016 1015 1014 1013 1012 1011 1010 1009 1008 1007 1006 1005 1004 1003
22 JUNE 1970
6.7μm
min.
min.



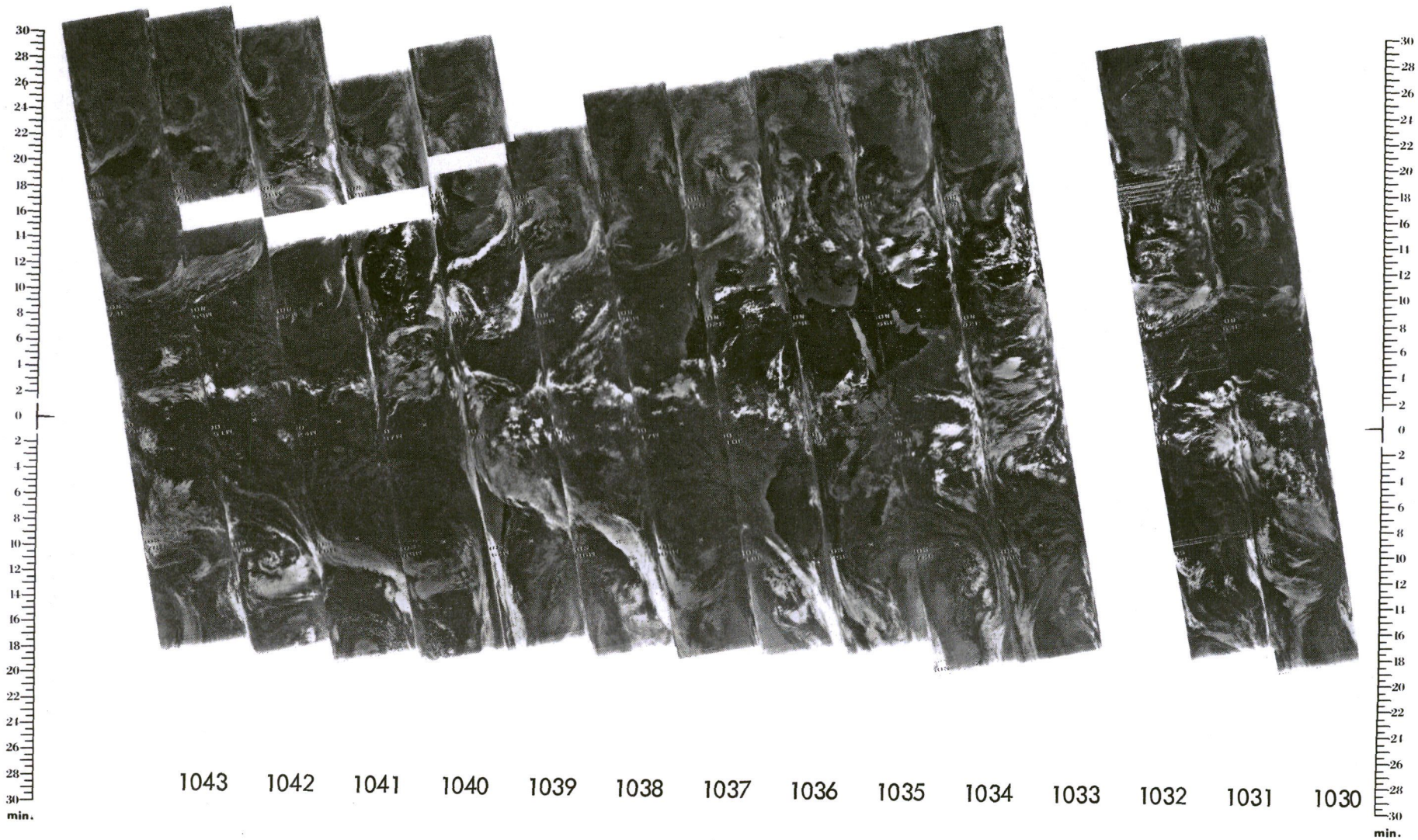
23 JUNE 1970

11.5μm

1029 1028 1027 1026 1025 1024 1023 1022 1021 1020 1019 1018 1017

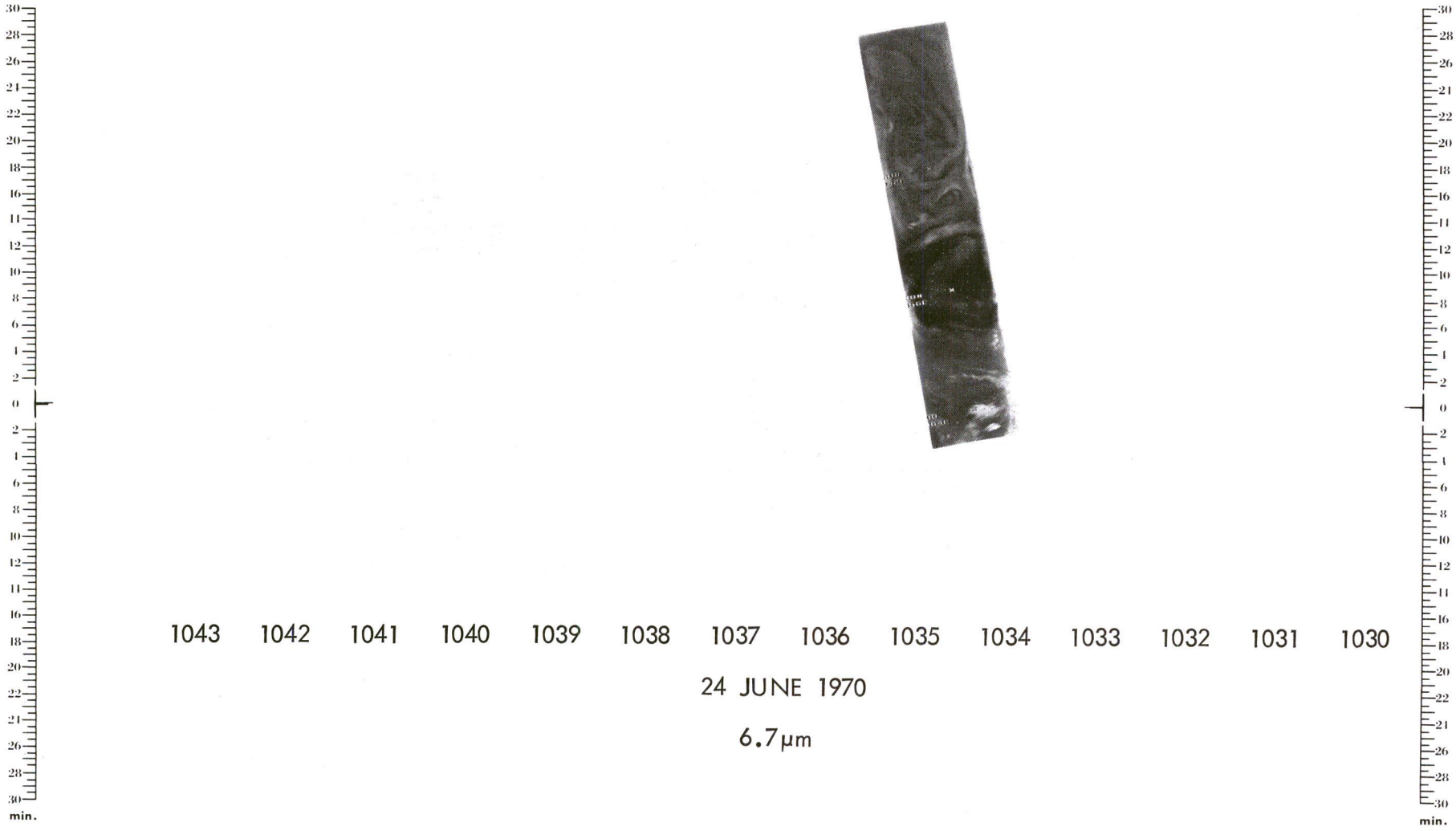
23 JUNE 1970

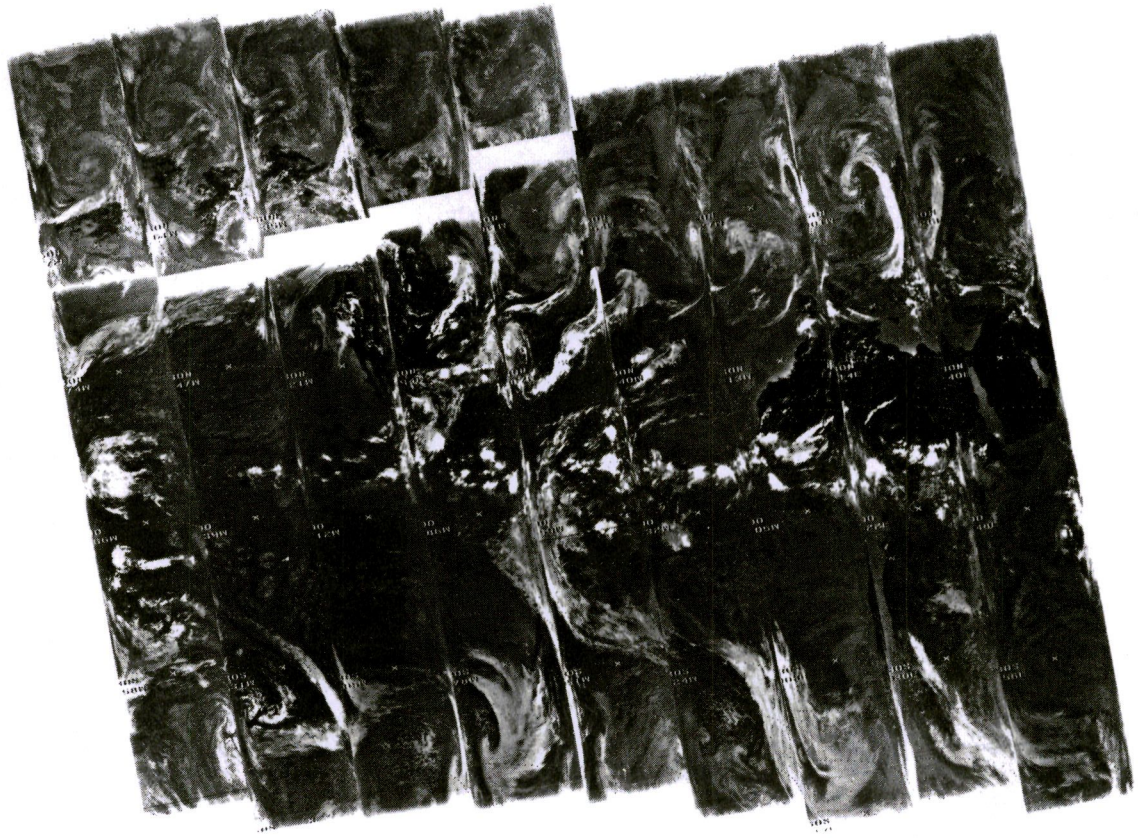
6.7μm



24 JUNE 1970

11.5μm


1043 1042 1041 1040 1039 1038 1037 1036 1035 1034 1033 1032 1031 1030
24 JUNE 1970
6.7μm
min.
min.

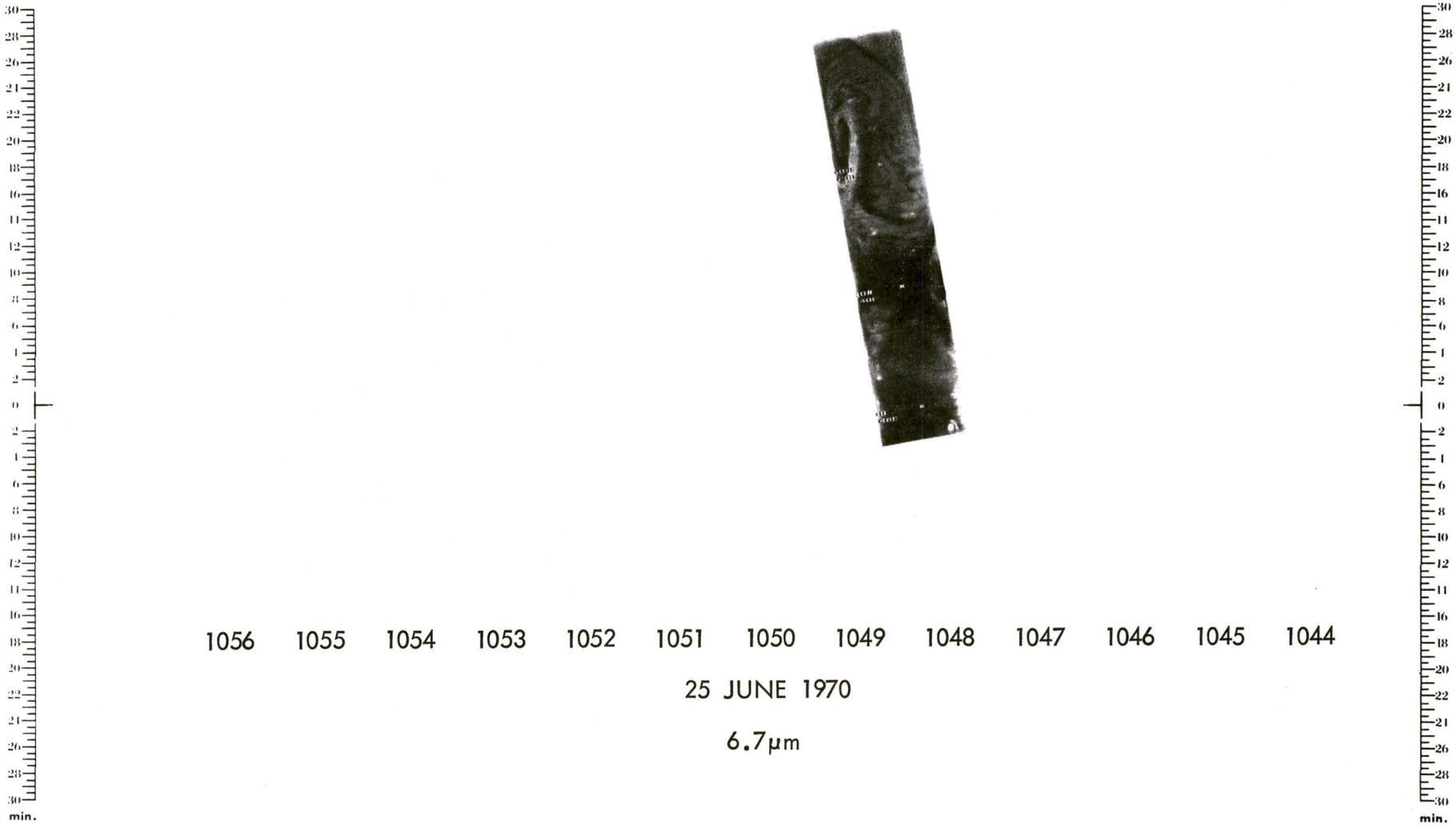


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1056 1055 1054 1053 1052 1051 1050 1049 1048 1047 1046 1045 1044

25 JUNE 1970

11.5μm



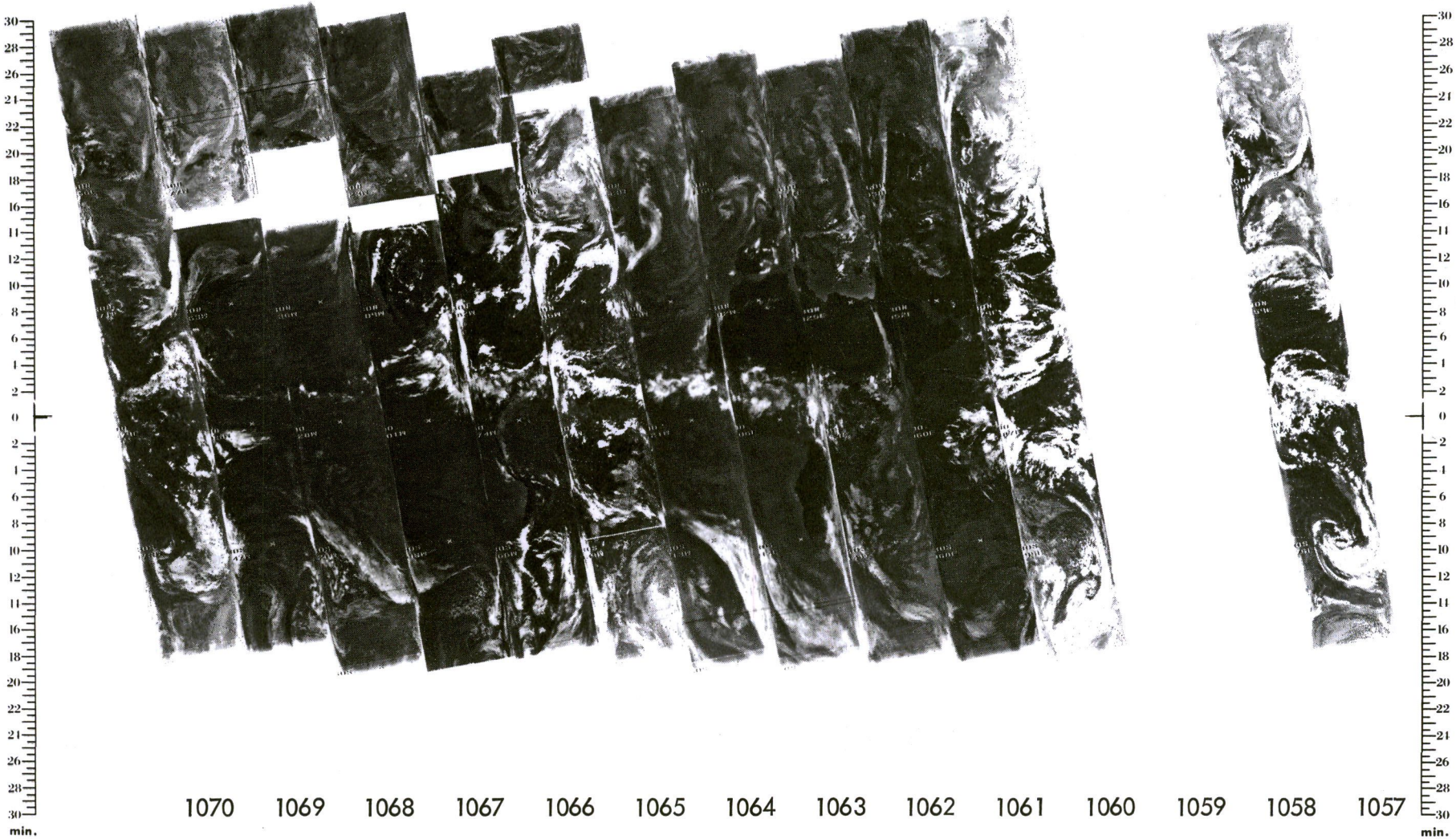
1056 1055 1054 1053 1052 1051 1050 1049 1048 1047 1046 1045 1044

25 JUNE 1970

6.7μm

min.

min.



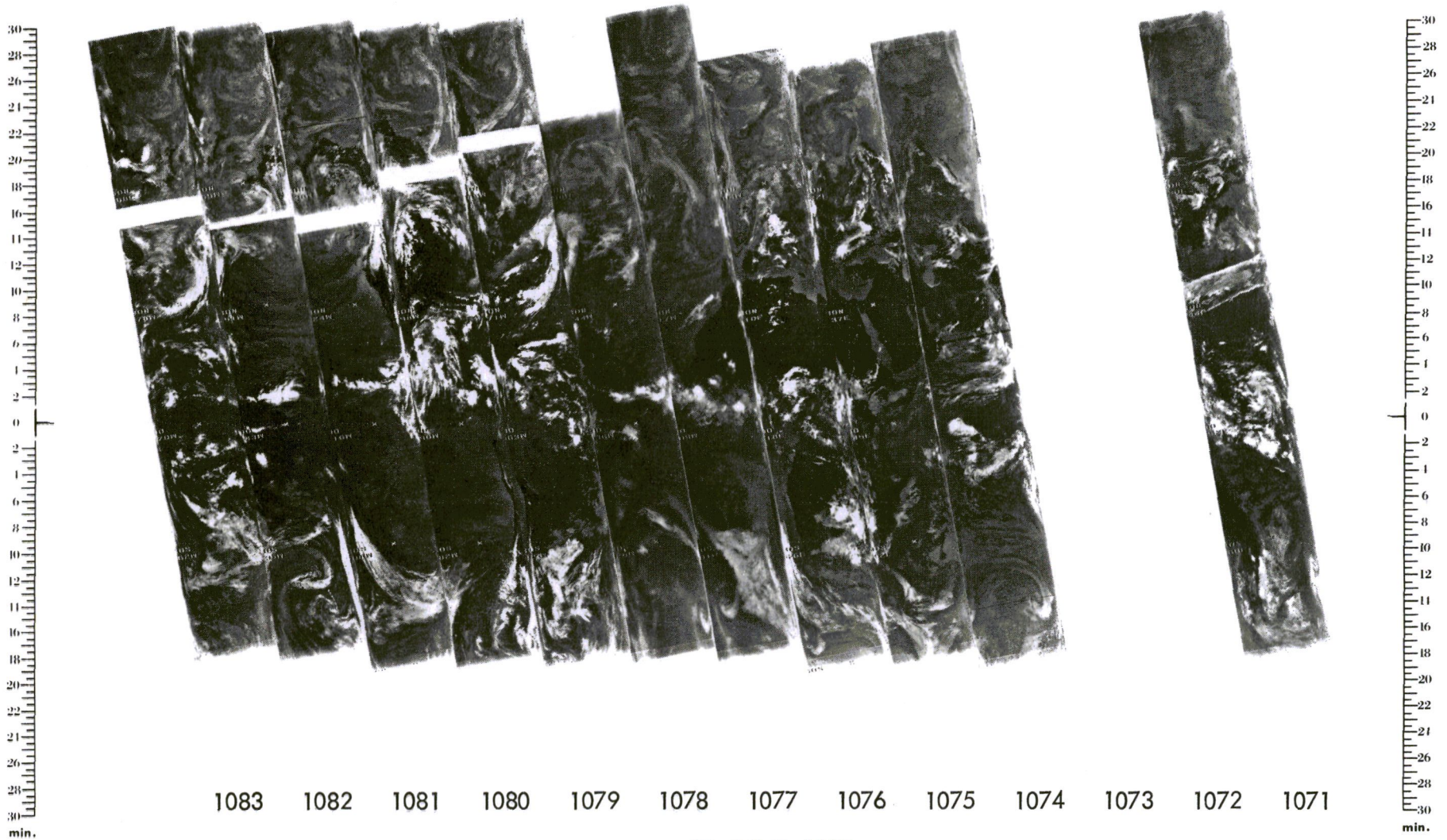
26 JUNE 1970

11.5μm

1070 1069 1068 1067 1066 1065 1064 1063 1062 1061 1060 1059 1058 1057

26 JUNE 1970

6.7μm



1083 1082 1081 1080 1079 1078 1077 1076 1075 1074 1073 1072 1071

27 JUNE 1970

11.5μm



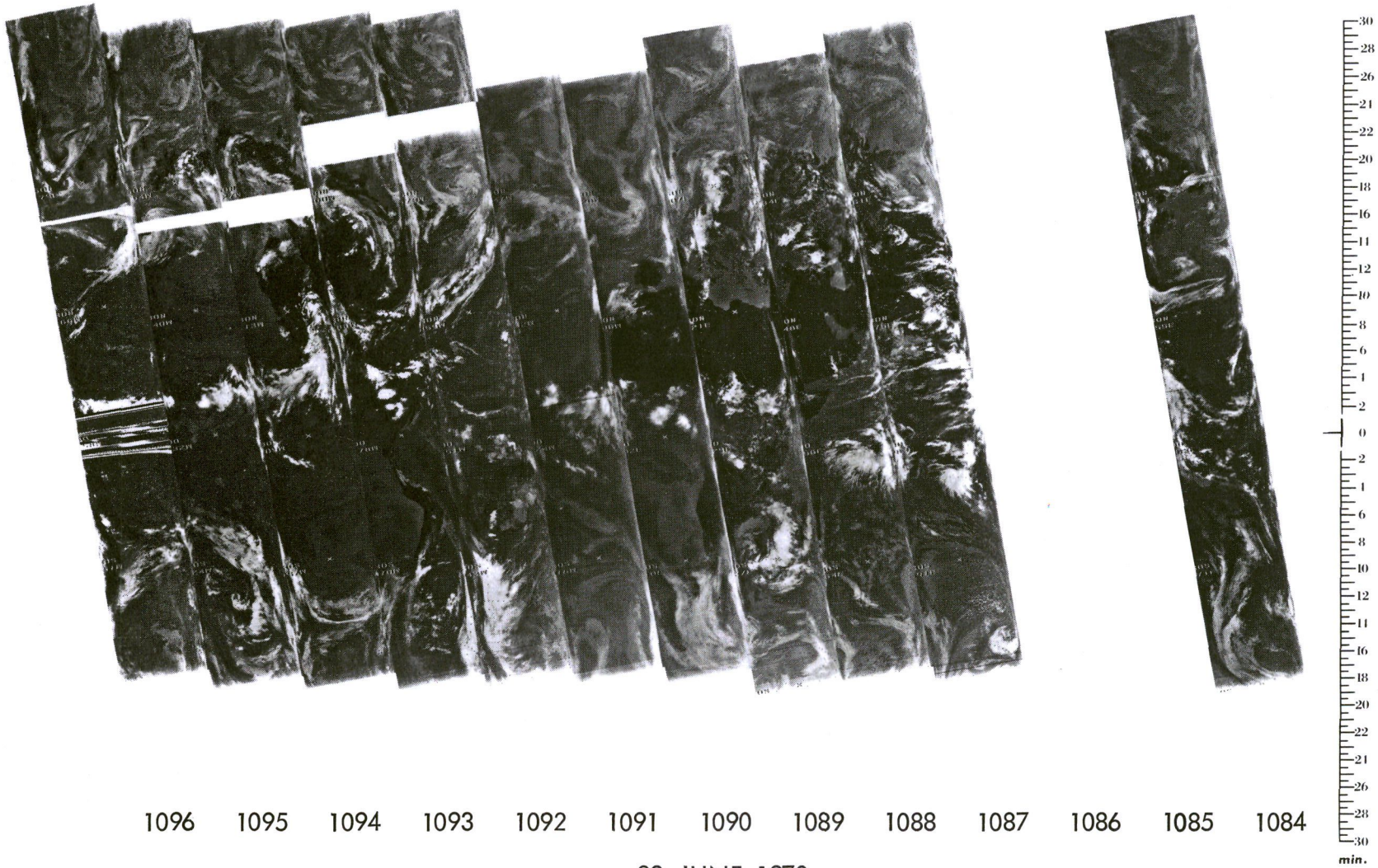
1083 1082 1081 1080 1079 1078 1077 1076 1075 1074 1073 1072 1071

27 JUNE 1970

6.7μm

min.

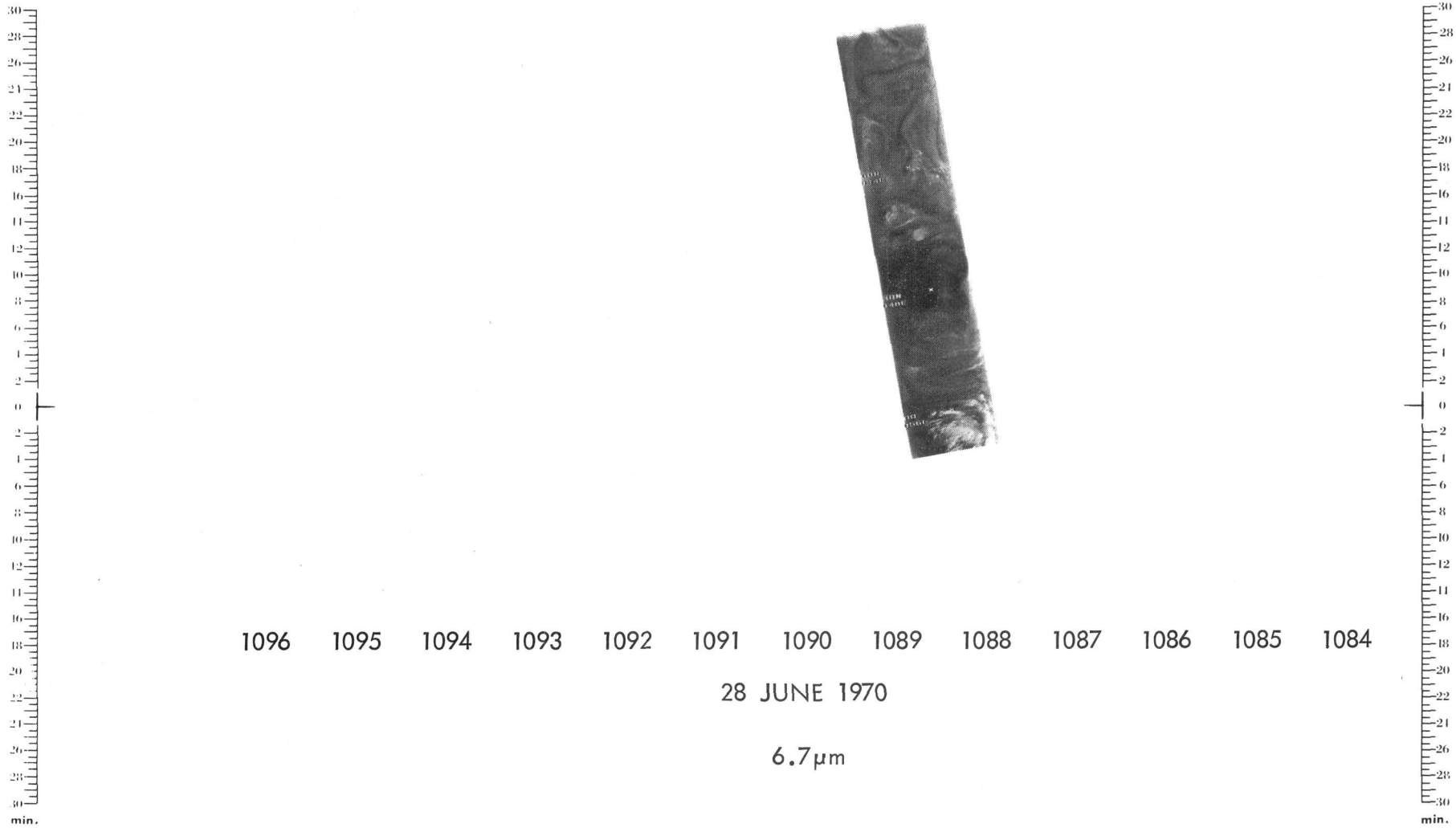
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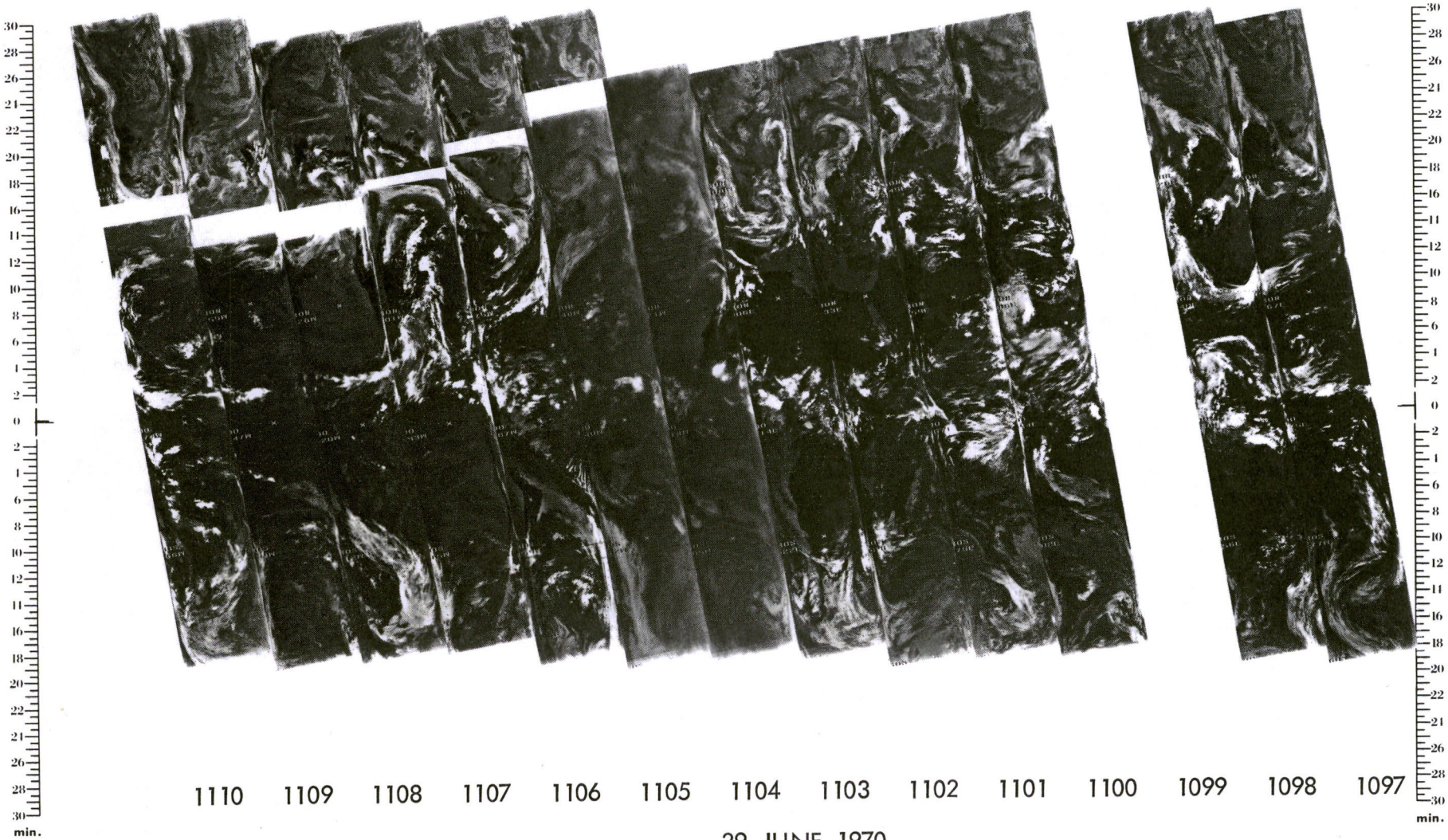


1096 1095 1094 1093 1092 1091 1090 1089 1088 1087 1086 1085 1084

28 JUNE 1970

11.5μm


1096 1095 1094 1093 1092 1091 1090 1089 1088 1087 1086 1085 1084
28 JUNE 1970
6.7μm
min.
min.



29 JUNE 1970

11.5μm

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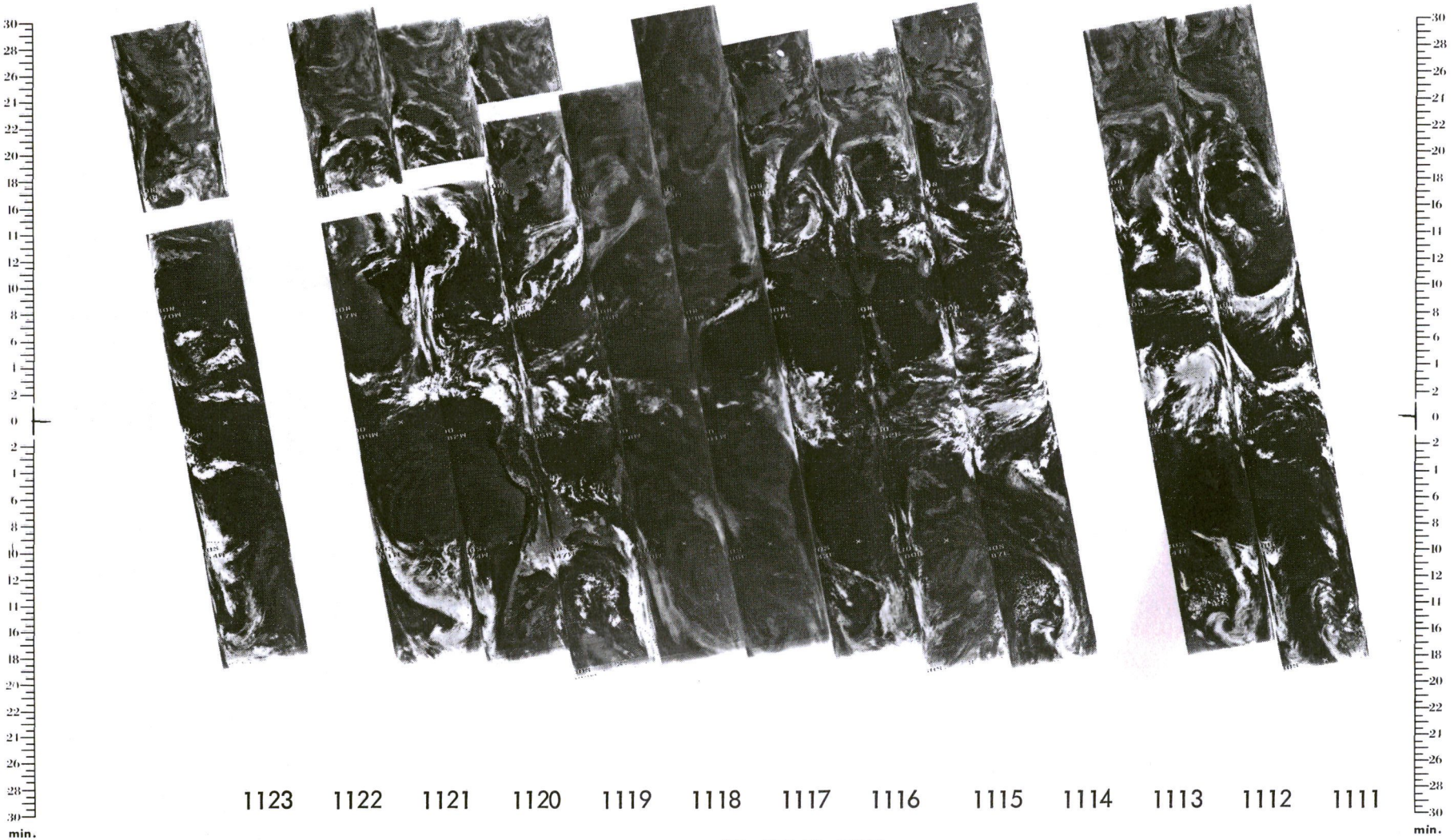
1110 1109 1108 1107 1106 1105 1104 1103 1102 1101 1100 1099 1098 1097

29 JUNE 1970

6.7μm

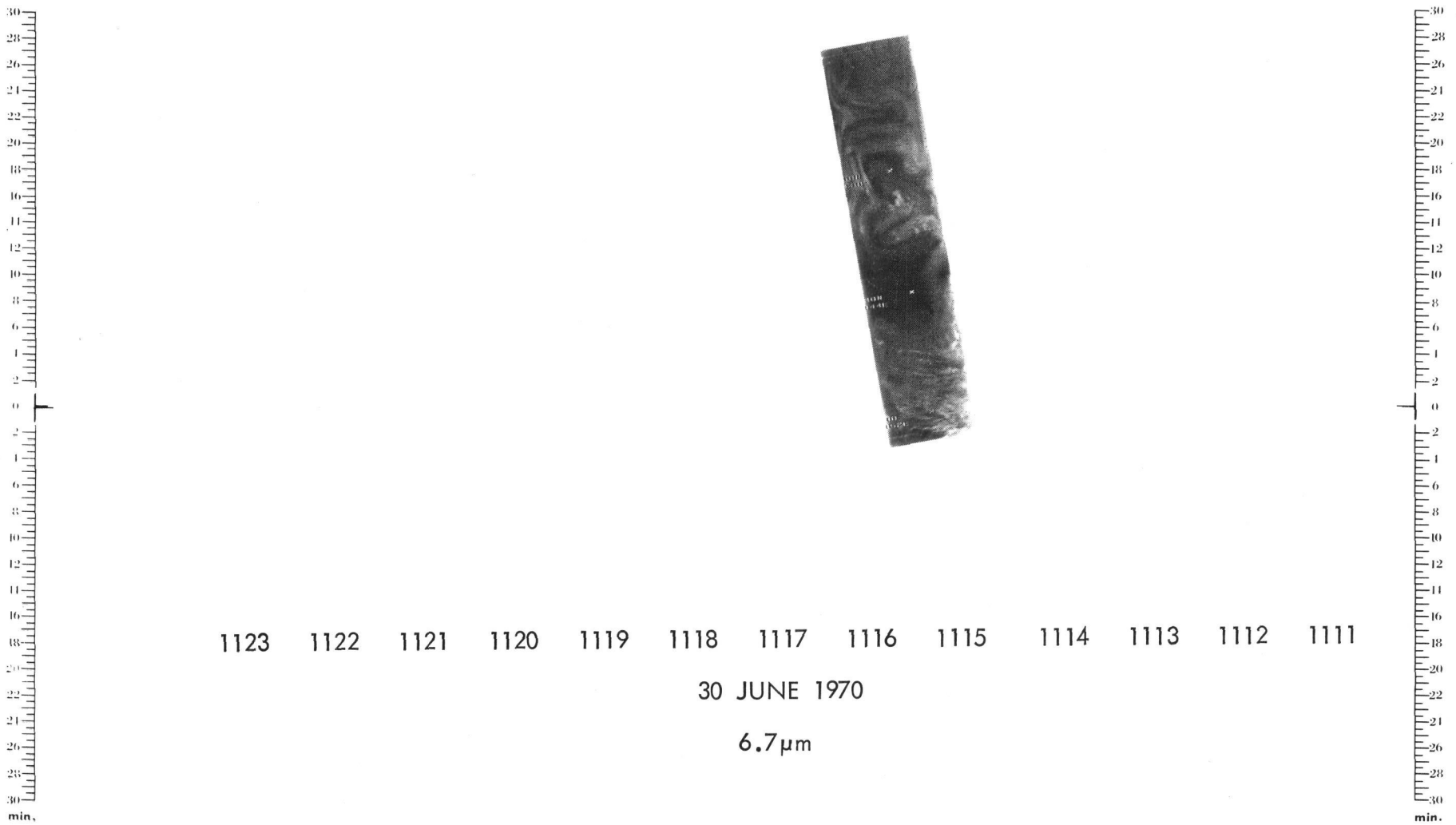
min.

min.



30 JUNE 1970

11.5μm

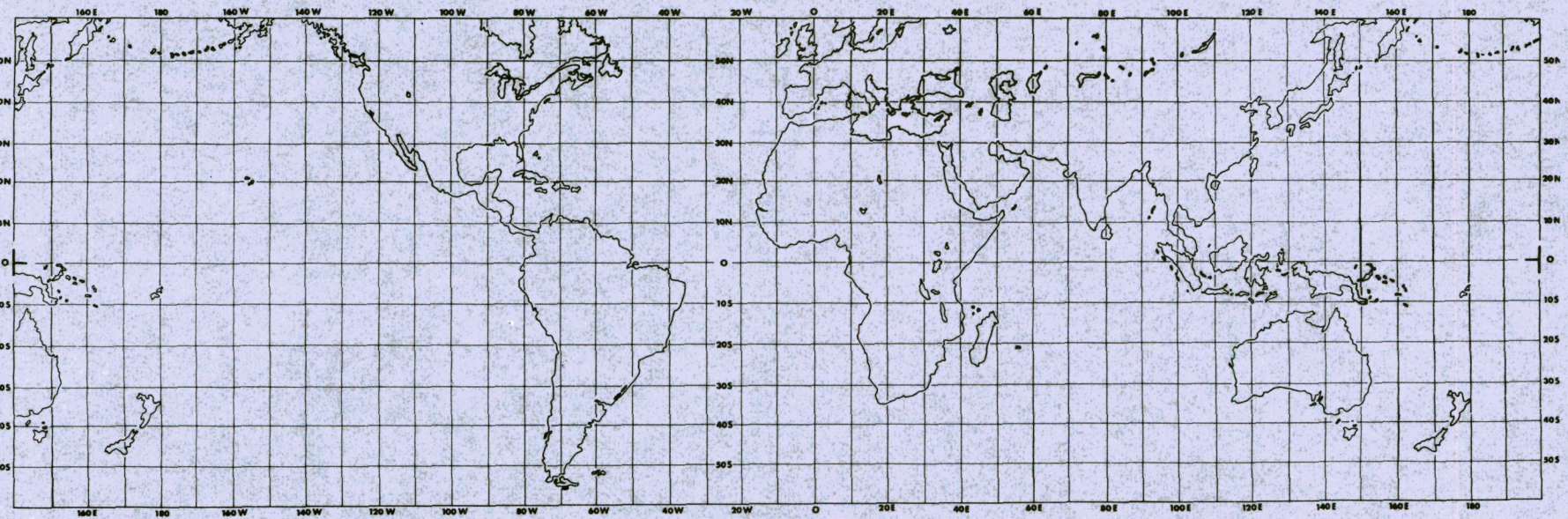


1123 1122 1121 1120 1119 1118 1117 1116 1115 1114 1113 1112 1111

30 JUNE 1970

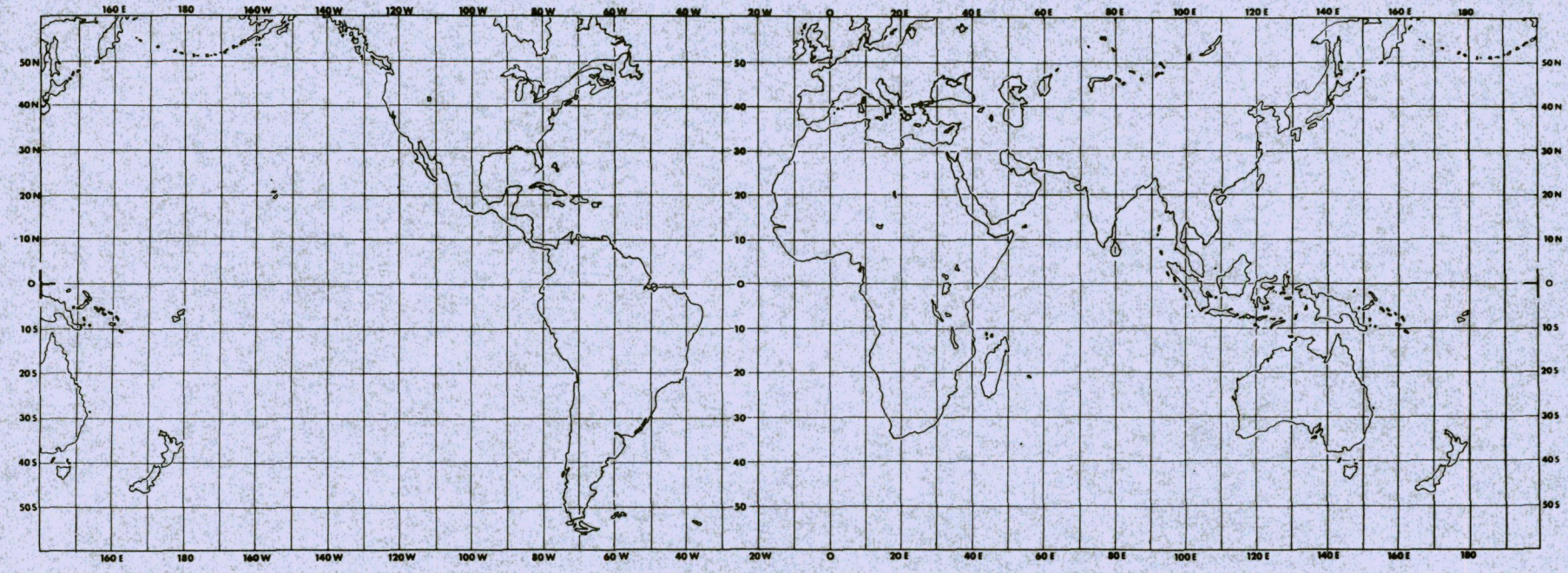
6.7μm

VELLUM OVERLAYS

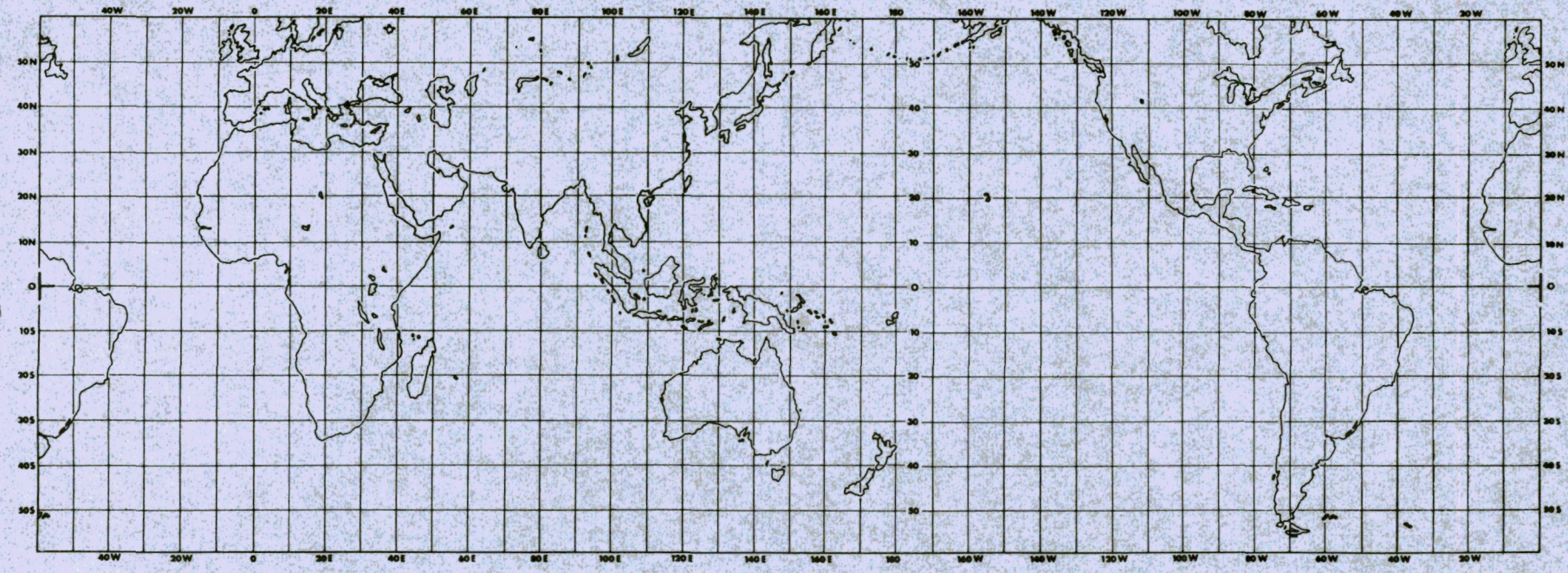


Location Guide
Average Scale for Nimbus 4
IDCS Montages

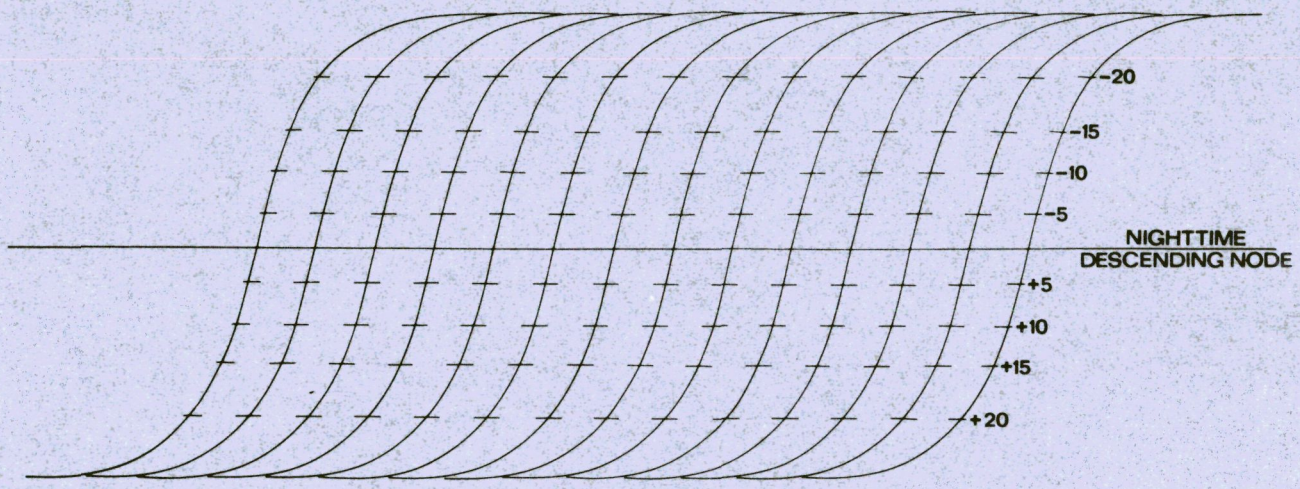
4-163



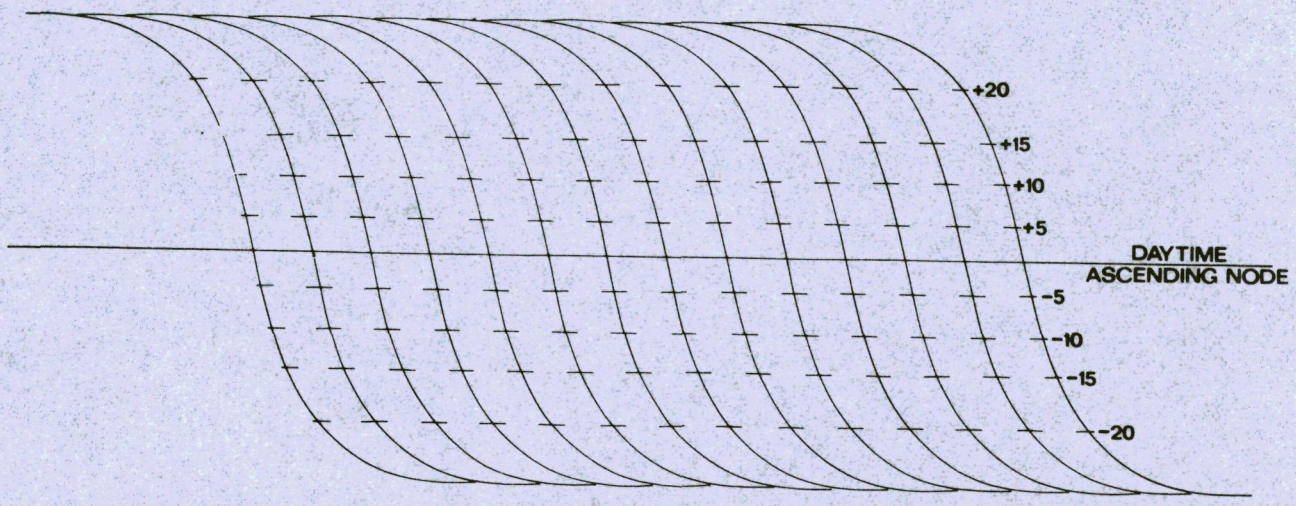
Location Guide
Average Scale for Nimbus 4
THIR Daytime Montages



Location Guide
Average Scale for Nimbus 4
THIR Nighttime Montages



NIMBUS 4 SUBSATELLITE TRACKS OVERLAY



NIMBUS 4 SUBSATELLITE TRACKS OVERLAY